



May 5, 2017

B94001.01

City of Visalia Water Conservation Plant
7579 Avenue 288
Visalia, California 93277

Attention: Mr. Jeff Misenheimer

Re: Results of Second Quarter 2017 Sludge Stockpile Sampling and Analysis

Site: City of Visalia Water Conservation Plant
7579 Avenue 288, Visalia, California

Mr. Jeff Misenheimer:

Moore Twining Associates, Inc. (Moore Twining) has prepared this letter report to document the results of the sampling and analysis of the Second Quarter 2017 sludge stockpile associated with the City of Visalia Water Conservation Plant (VWCP).

This report includes a brief project summary, field methods and observations, and analytical methods and results.

PROJECT SUMMARY

The VWCP is located between Avenue 288 and Avenue 280 and between Road 68 and Freeway 99. The location of the site is depicted in [Drawing 1](#). [Drawing 2](#) is a site plan depicting the VWCP on-site features and the approximate location of the Second Quarter 2017 sludge stockpile. The stockpile is generated from the dewatered solids that the screw press produces.

The City of Visalia Water Conservation Plant is operating on Waste Discharge Requirement, R5-2014-0076 (WDR) that was effective August 1, 2014. It is Moore Twining's understanding that sampling and analysis of the sludge stockpile is conducted quarterly to characterize the stockpiled dry sludge in order for VWCP to obtain disposal options for the material. On April 3, 2017, four stockpiles, shown on [Drawing 2](#) and [Drawing 3](#), were observed by a Moore Twining technician to be approximately 160-feet long by 52-feet wide in drying beds #1, #2, #15 and #16, respectively and having an estimated average height of approximately 1.5 feet. The wet sludge was estimated to be approximately 1,982 cubic yards.

FIELD METHODS AND OBSERVATIONS

On April 3, 2017 Moore Twining collected seven composite samples from the Second Quarter, 2017 sludge stockpile. Prior to sampling, the dimensions of the stockpile were measured and an imaginary grid pattern was established over the stockpile. The stockpile was divided into seven equal sized sections. [Drawing 3](#) is a detail of the Second Quarter 2017 stockpile showing the sampling locations within the grid.

Samples were collected from each of the seven grid sections. Sub-samples were selected from surface and 1 foot within the stockpile in each grid section and then composited in the field. Each composited sample was placed in four 500 ml glass jars with Teflon® lined lids then stored in an ice-cooled chest for transportation to Moore Twining's analytical laboratory for analysis. The samples were handled in accordance with standard chain-of-custody procedures. Copies of the chain-of-custody documentation are included with the analytical report in [Attachment A](#).

LABORATORY TESTING PROGRAM

The composite samples were tested for the requirements within the WDR, priority pollutants listed in 40 CFR, Appendix D, Table II and III (excluding total phenols). The analysis included CAM 17 Metals, Cyanide, Moisture Content, Organochlorinated Pesticides (OCPs), Polychlorinated Biphenyls (PCBs), Volatile Organic Compounds (VOCs), and Semi-Volatile Organic Compounds (SVOCs). Specific analytical methods and reporting limits for these analytes are included on the laboratory data sheets in [Attachment A](#).

ANALYTICAL RESULTS

A summary of the analytical results for R5-2014-0076 (WDR) is presented in [Table 1](#). Copies of the chain-of-custody document and certified analytical report are included in [Attachment A](#).

LIMITATIONS

Moore Twining's services are based on the assumption that site conditions do not deviate from those reported to Moore Twining. If variations are found, or undesirable conditions exist, Moore Twining should be notified so that supplemental consideration may be provided.

Work performed by Moore Twining is for the sole use of the client. Any reliance on Moore Twining's work by a third party is at such party's sole risk. Geologic and hydrologic conditions may exist at the site that cannot be identified solely by visual observation. Where subsurface assessment is performed, professional opinions are based on interpretation of data at discrete sampling locations which may not represent conditions at unsampled locations.

Moore Twining is unable to predict events that may change the site conditions after its professional services are performed. Therefore, Moore Twining assumes no responsibility for conditions it was

*City of Visalia Water Conservation Plant
May 5, 2017*

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not authorized to evaluate, or conditions not generally recognized as predictable when services were performed.

Professional services performed by Moore Twining were in accordance with generally-accepted engineering principles and practices in Tulare County at the time the services were performed. This warranty is in lieu of all other warranties, either expressed or implied.

CLOSING

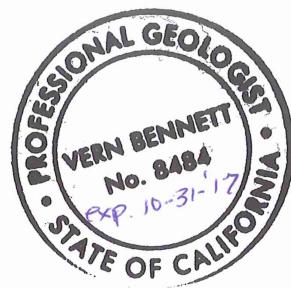
Moore Twining appreciates the opportunity to provide these services to you. If you have any questions regarding this letter or the project, please call Moore Twining at (559) 268-7021.

Respectfully submitted,

MOORE TWINING ASSOCIATES, INC.
Environmental and Geological Services Division

Ian Bent

Vern Bennett, PG No. 8484
Project Manager



Attachments:

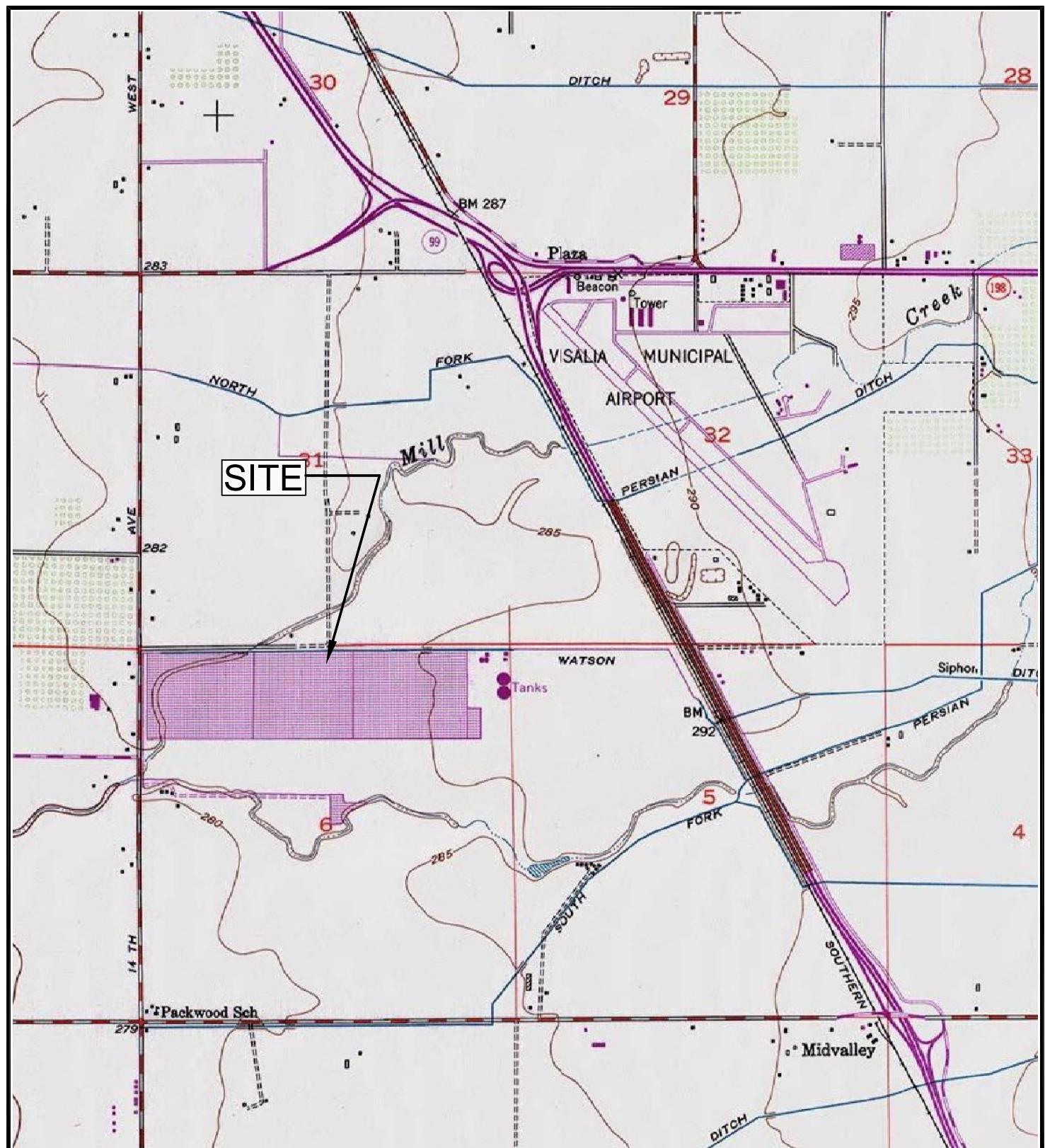
Tables: Table 1 - Sludge Stockpile Sampling Analytical Results
City of Visalia Water Conservation Plant

Drawings: Drawing 1 - Site Location Map
Drawing 2 - Aerial Site Plan showing approximate location of 2nd Quarter 2017 Stockpile
Drawing 3 - Generalized Sample Location Map of 2nd Quarter 2017 Stockpile

Attachment A: Laboratory Analytical Reports

DRAWINGS

DENALI_005364



SOURCE: U.S.G.S. TOPOGRAPHIC MAP, 7 1/2 MINUTE SERIES
GOSHEN, CALIFORNIA QUADRANGLE, PHOTOREVISED 1969

0 2000
APPROXIMATE SCALE
IN FEET

SITE LOCATION MAP
CITY OF VISALIA WATER CONSERVATION PLANT
7579 AVENUE 288
VISALIA, CALIFORNIA

FILE NO.: 94001-01-01	DATE: -
DRAWN BY:	APPROVED BY:
PROJECT NO. B94001.01	DRAWING NO. 1

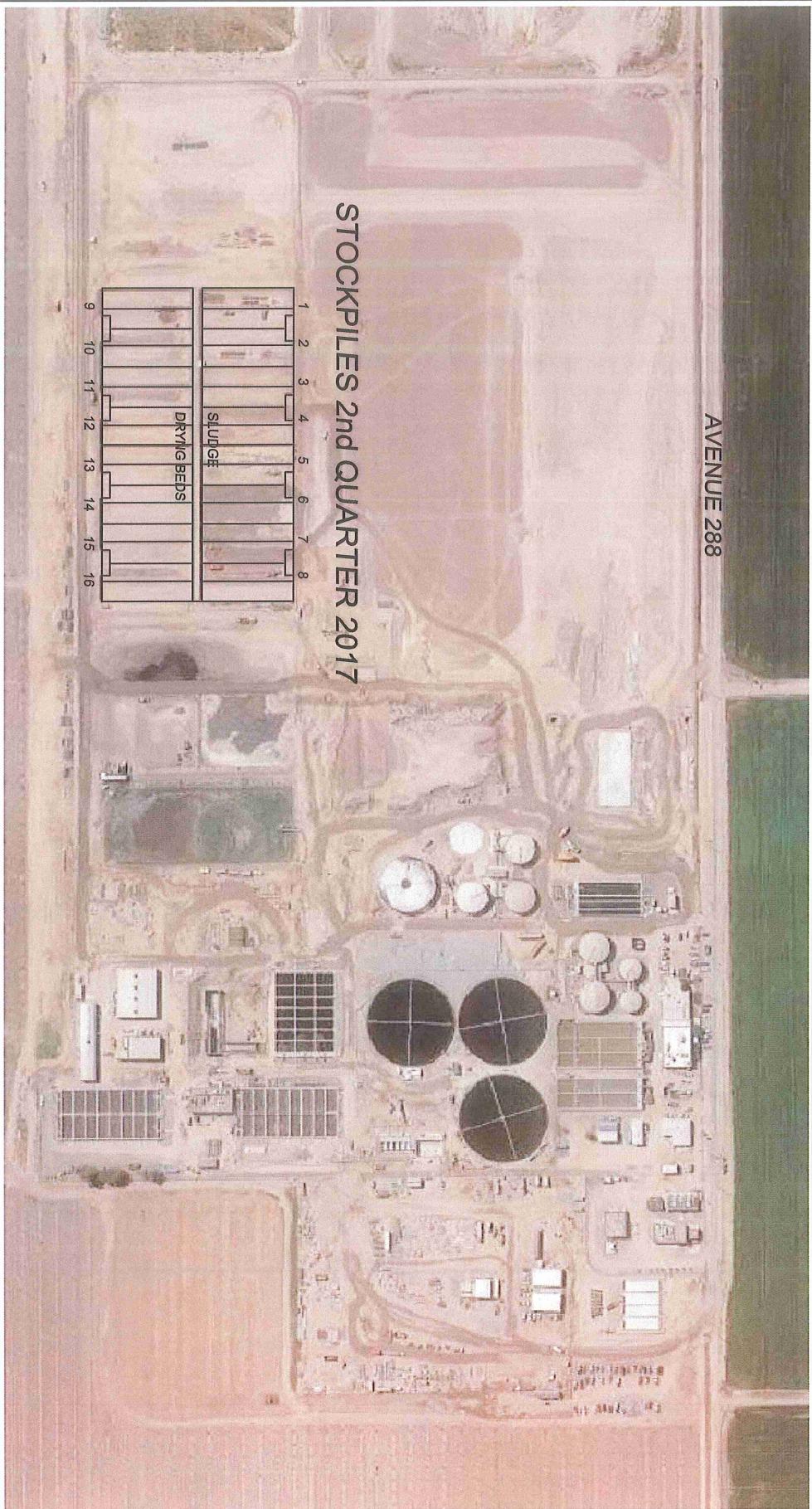
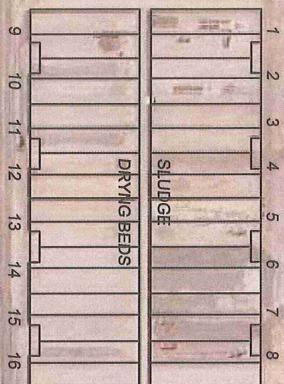


MOORE TWINNING
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DENALI_005365

AVENUE 288

STOCKPILES 2nd QUARTER 2017



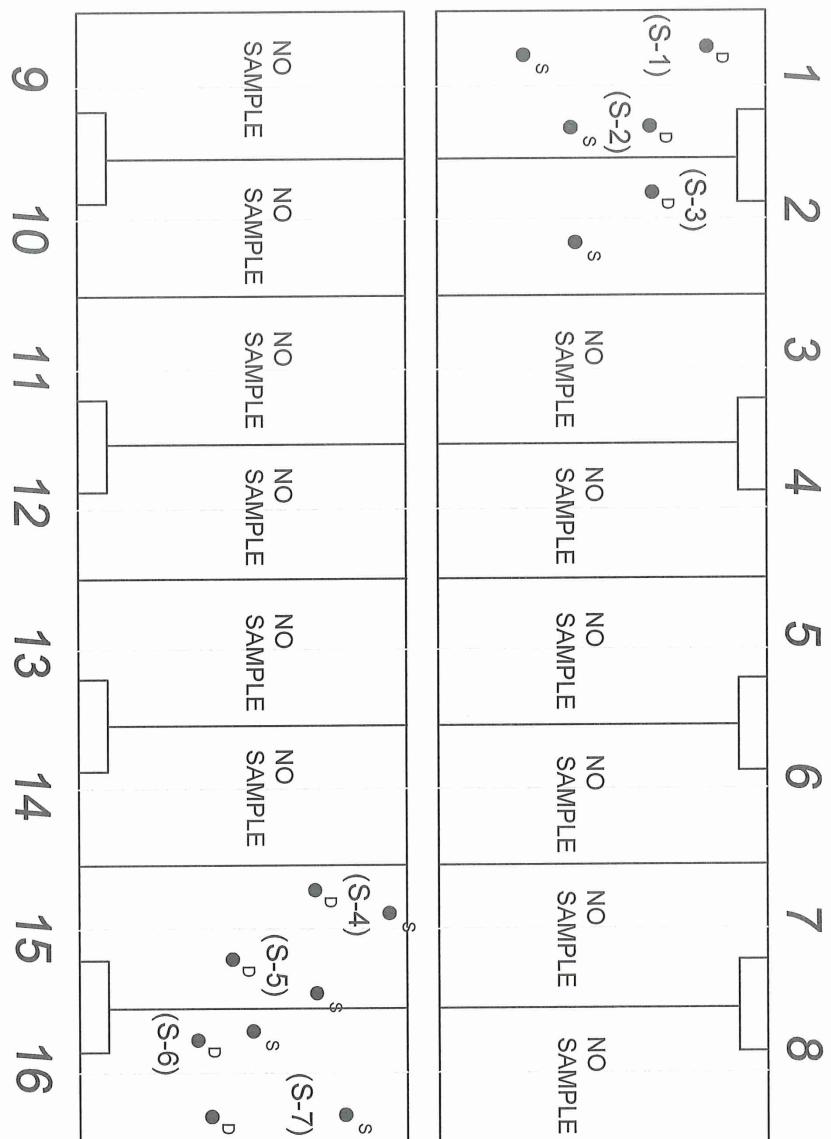
0
300
APPROXIMATE SCALE
IN FEET

AERIAL PHOTO SITE PLAN - 2nd QUARTER 2017	
CITY OF VISALIA WATER CONSERVATION PLANT	
7579 AVENUE 288	
VISALIA, CALIFORNIA	
FILE NO. 94001-01-02	DATE DRAWN: 04/28/17
DRAWN BY: RM	APPROVED BY:
PROJECT NO. B94001.01	DRAWING NO. 2

MOORE TWINNING
ASSOCIATES, INC.
Since 1898

DENALI_005366

SLUDGE DRYING BEDS



0
100

APPROXIMATE SCALE
IN FEET

S - SHALLOW
D - DEEP
(S-1) SAMPLE LOCATION
AND ID NUMBER

GENERALIZED SAMPLE LOCATION MAP
CITY OF VISALIA WATER CONSERVATION PLANT
2nd QUARTER 2017 STOCKPILE
VISALIA, CALIFORNIA

FILE NO. DATE DRAWN:
94001-01-03A 04/27/17

DRAWN BY: APPROVED BY:
RM

PROJECT NO. DRAWING NO.
B94001.01 3

MOORE TWINNING
ASSOCIATES, INC.

TABLE

TABLE 1
40 CFR, Appendix D, Tables II and III (Excluding Total Phenols)
Sludge Stockpile Sampling Analytical Results
City of Visalia Water Conservation Plant
April 3, 2017

Constituents	S-1	S-2	S-3	S-4	S-5	S-6	S-7	^a Mean Value
TABLE II - Organic Toxic Pollutants in Each of Four Fractions in Analysis by Gas Chromatography/Mass Spectroscopy (GS/MS)								
Volatiles (results in mg/kg)								
Acrolein	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Acrylonitrile	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014
Benzene	<0.00094	<0.00094	<0.00094	<0.00094	<0.00094	<0.00094	<0.00094	<0.00094
Bromoform	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064
Carbon tetrachloride	<0.00071	<0.00071	<0.00071	<0.00071	<0.00071	<0.00071	<0.00071	<0.00071
Chlorobenzene	<0.00082	<0.00082	<0.00082	<0.00082	<0.00082	<0.00082	<0.00082	<0.00082
Chlorodibromomethane, same as								
Dibromochloromethane	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055
Chloroethane	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
2-Chloroethylvinyl ether	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Chloroform	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056
Bromodichloromethane	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064
1,1-Dichloroethane	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00064
1,2-Dichloroethane (1,2-DCA)	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070
1,1-dichloroethylene, same as								
1,1-Dichloroethene	<0.00092	<0.00092	<0.00092	<0.00092	<0.00092	<0.00092	<0.00092	<0.00092
1,2-Dichloropropane	<0.00072	<0.00072	<0.00072	<0.00072	<0.00072	<0.00072	<0.00072	<0.00072
1,3-dichloropropylene, same as								
cis-1,3-Dichloropropene	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044
Ethylbenzene	<0.00076	<0.00076	<0.00076	<0.00076	<0.00076	<0.00076	<0.00076	<0.00076
Methyl chloride, same as								
Bromomethane	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035
Methyl chloride, same as								
Chloromethane	<0.00066	<0.00066	<0.00066	<0.00066	<0.00066	<0.00066	<0.00066	<0.00066
Methylene chloride	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
1,1,2,2-Tetrachloroethane	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074
Tetrachlorethylene, same as								
Tetrachloroethene (PCE)	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070
Toluene	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078
1,2-trans-dichloroethylene, same as								
trans-1,2-Dichloroethene	<0.00081	<0.00081	<0.00081	<0.00081	<0.00081	<0.00081	<0.00081	<0.00081
1,1,1-Trichloroethane (TCA)	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060
1,1,2-Trichloroethane	<0.00083	<0.00083	<0.00083	<0.00083	<0.00083	<0.00083	<0.00083	<0.00083
Trichloroethene (TCE)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.0073	0.0079	<0.00050
Vinyl chloride	<0.00076	<0.00076	<0.00076	<0.00076	<0.00076	<0.00076	<0.00076	<0.00076
Acid Compounds (results in mg/kg)								
2-Chlorophenol	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
2,4-Dichlorophenol	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
2,4-Dimethylphenol	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
4,6-dinitro-o-cresol, same as 4,6-								
Dinitro-2-methylphenol	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
2,4-Dinitrophenol	<0.14	<0.70	<0.70	<0.70	<0.70	<0.70	<0.70	<0.70
2-Nitrophenol	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
4-Nitrophenol	<0.17	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
p-chloro-m-cresol, same as 4-								
Chloro-3-methylphenol	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
Pentachlorophenol	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
Phenol	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
2,4,6-Trichlorophenol	<0.17	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87

40 CFR, Appendix D, Tables II and III (Excluding Total Phenols)

Sludge Stockpile Sampling Analytical Results

City of Visalia Water Conservation Plant

April 3, 2017

Constituents	S-1	S-2	S-3	S-4	S-5	S-6	S-7		^a Mean Value
Base/Neutral (results in mg/kg)									
Acenaphthene	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
Acenaphthylene	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
Anthracene	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
Benzidine	<0.75	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
Benzo (a) anthracene	0.28	<0.38	<0.38	<0.38	0.43	0.41	<0.38		0.27
Benzo (a) pyrene	<0.075	<0.38	<0.38	<0.38	0.38	<0.38	<0.38		0.24
Benzo (b) fluoranthene	<0.075	0.45	0.52	0.57	<0.38	0.73	<0.38		0.46
Benzo(ghi)perylene	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
Benzo (k) fluoranthene	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
Bis(2-chloroethoxy)methane	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
Bis(2-chloroethyl)ether	0.16	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		0.19
Bis(2-chloroisopropyl)ether	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
Bis(2-ethylhexyl) phthalate	19	11	15	15	18	22	13		16.14
4-Bromophenyl phenyl ether	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
Butyl benzyl phthalate	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
2-Chloronaphthalene	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
4-Chlorophenyl phenyl ether	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
Chrysene	0.31	<0.38	<0.38	<0.38	0.44	0.42	<0.38		0.39
Dibenzo(a,h)anthracene	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
1,2-Dichlorobenzene	<0.00046	<0.00046	<0.00046	<0.00046	<0.00046	<0.00046	<0.00046		<0.00046
1,3-Dichlorobenzene	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074		<0.00074
1,4-Dichlorobenzene	<0.00094	<0.00094	<0.00094	<0.00094	<0.00094	<0.00094	<0.00094		<0.00094
3-3'-dichlorobenzidene	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
Diethyl phthalate	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
Dimethyl phthalate	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
Di-n-butyl phthalate	0.33	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
2,4-Dinitrotoluene	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
2,6-Dinitrotoluene	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
Di-n-octyl phthalate	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
1,2-Diphenylhydrazine	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
Fluoranthene	0.24	0.4	0.38	<0.38	0.46	0.48	<0.38		0.39
Fluorene	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
Hexachlorobenzene	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
Hexachlorobutadiene	<0.00082	<0.00082	<0.00082	<0.00082	<0.00082	<0.00082	<0.00082		<0.00082
Hexachlorocyclopentadiene	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
Hexachloroethane	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
Indeno(1,2,3-cd)pyrene	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
Isophorone	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
Naphthalene	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015		<0.0015
Nitrobenzene	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
N-Nitrosodimethylamine	<0.076	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
N-Nitrosodi-n-propylamine	<0.075	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		<0.38
N-Nitrosodiphenylamine	<0.16	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79		<0.38
Phenanthrene	0.26	<0.38	<0.38	<0.38	<0.38	0.38	<0.38		0.23
Pyrene	1.5	0.57	0.73	0.95	1.4	1.5	0.62		1.04
1,2,4-Trichlorobenzene	<0.00068	<0.00068	<0.00068	<0.00068	<0.00068	<0.00068	<0.00068		<0.00068

40 CFR, Appendix D, Tables II and III (Excluding Total Phenols)

Sludge Stockpile Sampling Analytical Results

City of Visalia Water Conservation Plant

April 3, 2017

Constituents	S-1	S-2	S-3	S-4	S-5	S-6	S-7		^a Mean Value
Pesticides (results in mg/kg)									
Aldrin	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		<0.015
alpha-BHC	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		<0.015
beta-BHC	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060		<0.0060
gamma-BHC (Lindane)	<0.018	<0.018	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060		<0.018
delta-BHC	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060		<0.0060
Chlordane (tech)	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090		<0.090
4,4'-DDT	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090		<0.0090
4,4'-DDE	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060		<0.0060
4,4'-DDD	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030		<0.0030
Dieldrin	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060		<0.0060
Endosulfan I	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060		<0.0060
Endosulfan II	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060		<0.0060
Endosulfan sulfate	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030		<0.0030
Endrin	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090		<0.0090
Endrin aldehyde	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060		<0.0060
Heptachlor	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024		<0.024
Heptachlor epoxide	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060		<0.0060
PCB-1242	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033		<0.033
PCB-1254	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033		<0.033
PCB-1221	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033		<0.033
PCB-1232	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033		<0.033
PCB-1248	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033		<0.033
PCB-1260	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033		<0.033
PCB-1016	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033		<0.033
Toxaphene	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015		<0.015

TABLE III - Organic Toxic Pollutants (Metals and Cyanide) without Total Phenols
(Results in mg/kg - dry weight)

Antimony	1	0.4	<0.10	1.1	<0.10	1.7	0.71		0.98
Arsenic	4.4	6.6	6.8	7.4	5.5	5.3	6.7		6.10
Beryllium	0.067	0.12	0.13	0.13	0.13	0.15	0.14		0.12
Cadmium	0.67	<0.0016	1.5	1.7	1.5	1.6	1.5		1.41
Chromium	13	27	28	31	26	31	28		26.29
Copper	130	310	290	360	250	300	290		275.71
Lead	13	31	30	40	29	32	30		29.29
Mercury	1.4	1.2	1.2	1.3	1.2	1.6	0.88		1.25
Molybdenum	6.5	9.5	17	16	14	16	17		13.71
Nickel	7.9	15	17	18	16	19	18		15.8
Selenium	4.2	6.6	7.6	7.8	7.8	8.6	7		7.1
Silver	3	7.4	7.1	11	6.3	7.4	6.8		7.0
Thallium	2.7	2.6	3.3	3.8	3.2	2.4	2.1		2.87
Zinc	540	1200	1200	1400	1000	1300	1200		1120
(Cyanide (total))	2.5	3.9	5.6	6.3	2.8	3.3	5.5		4.3

<1.0 = not detected at or above the method detection limit ND = not detected

mg/kg = milligrams per kilogram

J= flagged as an estimate value, result is less than the laboratory reporting limit but

--- = not established

observed above the method detection limit.

(a) The mean is value calculated using all detections above the reporting limit of the laboratory. If detections are estimated (J flagged) then the mean is calculated from all estimated values above the method detection limit and 1/2 the method detection limit. If there are no detections, then the mean is listed as less than the method detection limit.

This Table is a summary of data required from WDR R5-2014-0076.

40 CFR, Appendix D, Tables II and III (Excluding Total Phenols)
Sludge Stockpile Sampling Analytical Results
City of Visalia Water Conservation Plant
April 3, 2017

Constituents	S-1	S-2	S-3	S-4	S-5	S-6	S-7		^a Mean Value
Additional Analysis Requested									
STLC Metals (Results in mg/L)									
Antimony	0.12	0.14	0.078	0.2	0.12	0.14	0.2		0.153
Arsenic	0.22	0.11	0.081	0.23	0.23	0.15	0.27		0.202
Beryllium	0.0031	0.0028	0.0039	0.0036	0.0027	0.0045	0.0032		0.003
Cadmium	<0.0016	<0.0016	0.0093	<0.0016	<0.0016	<0.0016	0.011		0.011
Chromium	0.59	0.67	0.76	0.62	0.61	0.7	0.67		0.643
Copper	0.043	0.037	0.056	0.08	0.052	0.048	0.067		0.055
Lead	0.33	0.35	0.36	0.39	0.45	0.38	0.38		0.377
Mercury	0.00084	0.0009	0.00083	0.0011	0.0012	0.0014	0.0013		0.0011
Molybdenum	0.19	0.24	0.25	0.22	0.19	0.26	0.27		0.231
Nickel	0.51	0.59	0.65	0.48	0.48	0.65	0.63		0.57
Selenium	0.2	0.27	0.23	0.27	0.15	0.39	0.21		0.248
Silver	0.031	0.023	0.033	0.019	0.024	0.027	0.028		0.025
Thallium	0.15	0.21	0.2	0.23	0.13	0.086	0.34		0.191
Zinc	42	48	57	41	35	49	52		46

STLC - Soluble Threshold Limit Concentration
mg/L = milligram per liter

ATTACHMENT A

Laboratory Analytical Reports
(wo# DD04004)



2527 Fresno Street
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(559) 268-0740 Fax

California ELAP Certificate # 1371

April 26, 2017

Work Order #: DD04004

Vern Bennett
MTA Environmental Division
2527 Fresno Street
Fresno, CA 93721

RE: Visalia Water Conservation Plant

Enclosed are the analytical results for samples received by our laboratory on 04/04/17 . For your reference, these analyses have been assigned laboratory work order number DD04004 .

All analyses have been performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, Moore Twining Associates, Inc. (MTA) is not responsible for use of less than complete reports. Results apply only to samples analyzed.

If you have any questions, please feel free to contact us at the number listed above.

Sincerely,

Moore Twining Associates, Inc.

A handwritten signature in black ink that reads "Susan Federico". The signature is fluid and cursive, with "Susan" on top and "Federico" underneath.

Susan Federico
Client Services Representative



2527 Fresno Street
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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1	DD04004-01	Biosolids	04/03/17 15:00	04/04/17 08:45
S-2	DD04004-02	Biosolids	04/03/17 15:15	04/04/17 08:45
S-3	DD04004-03	Biosolids	04/03/17 15:30	04/04/17 08:45
S-4	DD04004-04	Biosolids	04/03/17 15:45	04/04/17 08:45
S-5	DD04004-05	Biosolids	04/03/17 16:00	04/04/17 08:45
S-6	DD04004-06	Biosolids	04/03/17 16:15	04/04/17 08:45
S-7	DD04004-07	Biosolids	04/03/17 16:30	04/04/17 08:45

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 2 of 81

DENALI_005375



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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-1
DD04004-01 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Inorganics

Cyanide (total)	2.5	1.0	0.45	mg/kg dry	1	U7D1701	04/17/17	04/17/17	EPA 9014	
% Solids	68	1.0	0.10	%	1	U7D1708	04/17/17	04/18/17	% Calculation	
Total Solids	68	0.10		%	1	U7D1708	04/17/17	04/18/17	SM 2540G	

Metals - Totals

Antimony	1.0	2.0	0.10	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	J
Arsenic	4.4	2.0	0.22	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Barium	140	2.0	0.13	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Beryllium	0.067	0.40	0.032	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	J
Cadmium	0.67	0.40	0.023	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Chromium	13	2.0	0.078	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Cobalt	1.1	0.80	0.022	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Copper	130	2.0	0.069	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Lead	13	2.0	0.16	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Mercury	1.4	0.047	0.011	mg/kg dry	1	U7D1401	04/14/17	04/14/17	EPA 7471A	
Molybdenum	6.5	2.0	0.13	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Nickel	7.9	2.0	0.091	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Selenium	4.2	5.0	0.36	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	J
Silver	3.0	2.0	0.10	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Thallium	2.7	5.0	0.46	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	J
Vanadium	33	2.5	0.38	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Zinc	540	2.0	0.060	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	

Metals - STLC Citrate Buffer

Antimony	0.12	0.40	0.026	mg/L	1	U7D1404	04/17/17	04/17/17	EPA 6010B	J
Arsenic	0.22	0.20	0.036	mg/L	1	U7D1404	04/17/17	04/17/17	EPA 6010B	
Barium	5.8	0.40	0.0040	mg/L	1	U7D1404	04/17/17	04/17/17	EPA 6010B	
Beryllium	0.0031	0.020	0.00020	mg/L	1	U7D1404	04/17/17	04/17/17	EPA 6010B	J
Cadmium	ND	0.020	0.0016	mg/L	1	U7D1404	04/17/17	04/17/17	EPA 6010B	
Chromium	0.59	0.10	0.0070	mg/L	1	U7D1404	04/17/17	04/17/17	EPA 6010B	
Cobalt	0.0075	0.040	0.0052	mg/L	1	U7D1404	04/17/17	04/17/17	EPA 6010B	J
Copper	0.043	0.10	0.0064	mg/L	1	U7D1404	04/17/17	04/17/17	EPA 6010B	J
Lead	0.33	0.50	0.016	mg/L	1	U7D1404	04/17/17	04/17/17	EPA 6010B	J
Mercury	0.84	1.0	0.31	µg/L	1	U7D1804	04/18/17	04/18/17	EPA 7470A	D2, J
Molybdenum	0.19	0.10	0.0068	mg/L	1	U7D1404	04/17/17	04/17/17	EPA 6010B	
Nickel	0.51	0.10	0.034	mg/L	1	U7D1404	04/17/17	04/17/17	EPA 6010B	
Selenium	0.20	0.40	0.060	mg/L	1	U7D1404	04/17/17	04/17/17	EPA 6010B	J
Silver	0.031	0.10	0.0060	mg/L	1	U7D1404	04/17/17	04/17/17	EPA 6010B	J

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-1
DD04004-01 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Metals - STLC Citrate Buffer

Thallium	0.15	0.40	0.0040	mg/L	1	U7D1404	04/17/17	04/17/17	EPA 6010B	J
Vanadium	1.8	0.20	0.014	mg/L	1	U7D1404	04/17/17	04/17/17	EPA 6010B	
Zinc	42	0.40	0.0080	mg/L	1	U7D1404	04/17/17	04/17/17	EPA 6010B	

Semi-Volatile Organics

4,4'-DDD	ND	0.025	0.0030	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
4,4'-DDE	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
4,4'-DDT	ND	0.025	0.0090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Aldrin	ND	0.025	0.015	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
alpha-BHC	ND	0.025	0.015	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
alpha-Chlordane	0.012	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	J
beta-BHC	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Chlordane (tech)	ND	0.090	0.090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
delta-BHC	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Dieleadrin	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endosulfan I	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Trifluralin	ND	0.025	0.0090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endosulfan II	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endosulfan sulfate	ND	0.025	0.0030	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endrin	ND	0.025	0.0090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endrin aldehyde	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endrin ketone	ND	0.025	0.0030	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
gamma-BHC (Lindane)	ND	0.025	0.018	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
gamma-Chlordane	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Heptachlor	ND	0.025	0.024	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Heptachlor epoxide	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Methoxychlor	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Toxaphene	ND	0.050	0.015	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
<i>Surrogate: Decachlorobiphenyl (DCB)</i>	<i>147 %</i>	<i>11.4-122</i>				<i>U7D0507</i>	<i>04/05/17</i>	<i>04/05/17</i>	<i>EPA 8081A</i>	<i>S02</i>
<i>Surrogate: Tetrachloro-meta-xylene (TMX)</i>	<i>79.1 %</i>	<i>8.5-170</i>				<i>U7D0507</i>	<i>04/05/17</i>	<i>04/05/17</i>	<i>EPA 8081A</i>	
PCB-1016	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1221	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1232	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1242	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1248	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1254	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1260	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-1
DD04004-01 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semi-Volatile Organics

Surrogate: Decachlorobiphenyl (DCB)	88.0 %	17.2-156				U7D0508	04/05/17	04/07/17	EPA 8082	
Surrogate: Tetrachloro-meta-xylene (TMX)	65.0 %	20.6-119				U7D0508	04/05/17	04/07/17	EPA 8082	
N-Nitrosodimethylamine	ND	0.50	0.076	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
N-Nitrosomethylethylamine	ND	0.50	0.12	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Methyl Methanesulfonate	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
N-Nitrosodiethylamine	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Ethyl Methanesulfonate	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Phenol	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Bis(2-chloroethyl)ether	0.16	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	J
2-Chlorophenol	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
1,4-Dichlorobenzene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Benzyl alcohol	0.11	0.50	0.10	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	J
Bis(2-chloroisopropyl)ether	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
2-Methylphenol	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Acetophenone	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
N-Nitrosopyrrolidine	ND	0.50	0.13	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Hexachloroethane	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
o-Toluidine	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
4-Methylphenol	ND	0.50	0.13	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
N-Nitrosodi-n-propylamine	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Nitrobenzene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
N-Nitrosopiperidine	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Isophorone	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
2-Nitrophenol	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
2,4-Dimethylphenol	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Bis(2-chloroethoxy)methane	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
2,4-Dichlorophenol	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
1,2,4-Trichlorobenzene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Benzoic acid	ND	0.50	0.081	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Safrole	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
2,6-Dichlorophenol	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
N-Nitrosodi-n-butylamine	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
4-Chloro-3-methylphenol	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
2-Methylnaphthalene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Hexachlorocyclopentadiene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
2,4,5-Trichlorophenol	ND	0.50	0.11	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
2,4,6-Trichlorophenol	ND	0.50	0.17	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-1
DD04004-01 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semi-Volatile Organics

2-Chloronaphthalene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
2-Nitroaniline	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
1,4-Naphthoquinone	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Dimethyl phthalate	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Acenaphthylene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
1,3-Dinitrobenzene	ND	0.50	0.13	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
2,6-Dinitrotoluene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
3-Nitroaniline	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
5-Nitro-o-toluidine	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
1,2-Diphenylhydrazine	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Acenaphthene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
2,4-Dinitrophenol	ND	0.50	0.14	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Pentachlorobenzene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
4-Nitrophenol	ND	0.50	0.17	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
1-Naphthylamine	ND	0.50	0.084	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
2,4-Dinitrotoluene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
2-Naphthylamine	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Fluorene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Diethyl phthalate	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
4-Chlorophenyl phenyl ether	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Methapyrilene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
4-Nitroaniline	ND	0.50	0.088	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
4-Aminobiphenyl	ND	0.50	0.16	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Diphenylamine	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Benzidine	ND	5.0	0.75	mg/kg dry	10	U7D0603	04/06/17	04/11/17	EPA 8270C	
N-Nitrosodiphenylamine	ND	0.50	0.16	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
4,6-Dinitro-2-methylphenol	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Phenacetin	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Pentachloronitrobenzene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
4-Bromophenyl phenyl ether	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Hexachlorobenzene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Pentachlorophenol	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Phenanthrene	0.26	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	J
Anthracene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Di-n-butyl phthalate	0.33	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	J
Fluoranthene	0.24	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	J

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-1
DD04004-01 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semi-Volatile Organics

Pyrene	1.5	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
p-Dimethylaminoazobenzene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
3,3'-Dimethylbenzidine	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Butyl benzyl phthalate	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
2-Acetylaminofluorene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Benzo (a) anthracene	0.28	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	J
Chrysene	0.31	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	J
Bis(2-ethylhexyl) phthalate	19	5.0	0.75	mg/kg dry	10	U7D0603	04/06/17	04/11/17	EPA 8270C	
Di-n-octyl phthalate	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Benzo (b) fluoranthene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Benzo (k) fluoranthene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Benzo (a) pyrene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
3,3'-Dichlorobenzidine	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
3-Methylcholanthrene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Indeno(1,2,3-cd)pyrene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Dibenzo(a,h)anthracene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Benzo(ghi)perylene	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
O,O,O-Triethyl phosphorothioate	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
Pronamide	ND	0.50	0.075	mg/kg dry	1	U7D0603	04/06/17	04/08/17	EPA 8270C	
<i>Surrogate: 2-Fluorophenol</i>	42.0 %	22-92				U7D0603	04/06/17	04/08/17	EPA 8270C	
<i>Surrogate: Phenol-d5</i>	48.9 %	10-94				U7D0603	04/06/17	04/08/17	EPA 8270C	
<i>Surrogate: Nitrobenzene-d5</i>	45.4 %	41-110				U7D0603	04/06/17	04/08/17	EPA 8270C	
<i>Surrogate: 2-Fluorobiphenyl</i>	56.0 %	40-92				U7D0603	04/06/17	04/08/17	EPA 8270C	
<i>Surrogate: 2,4,6-Tribromophenol</i>	61.3 %	49-138				U7D0603	04/06/17	04/08/17	EPA 8270C	
<i>Surrogate: d14-Terphenyl</i>	163 %	44-131				U7D0603	04/06/17	04/08/17	EPA 8270C	S02

Volatile Organics

Dichlorodifluoromethane (CFC-12)	ND	0.0050	0.00047	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	D1
Chloromethane	ND	0.0050	0.00066	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Vinyl chloride	ND	0.0050	0.00076	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromomethane	ND	0.0050	0.0035	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chloroethane	ND	0.0050	0.0010	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Trichlorodifluoromethane (CFC-11)	ND	0.0050	0.00076	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethanol	ND	0.25	0.054	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Trichlorotrifluoroethane (CFC-113)	ND	0.0050	0.00085	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	0.00085	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	

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MTA Environmental Division
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Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-1
DD04004-01 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics D1										
1,1-Dichloroethene	ND	0.0050	0.00092	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Carbon disulfide	0.017	0.0050	0.00066	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Iodomethane	ND	0.0050	0.0018	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Acrolein	ND	0.25	0.020	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Methylene chloride	ND	0.010	0.0015	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Acetone	ND	0.10	0.0034	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.0050	0.00081	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
tert-Butyl alcohol (TBA)	ND	0.10	0.011	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	0.0050	0.0018	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Di-isopropyl ether (DIPE)	ND	0.0050	0.00074	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chloroprene	ND	0.0050	0.00081	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1-Dichloroethane	ND	0.0050	0.00040	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Acrylonitrile	ND	0.050	0.014	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethyl tert-Butyl Ether (ETBE)	ND	0.0050	0.00058	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Vinyl acetate	ND	0.0050	0.0022	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.0050	0.00036	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2,2-Dichloropropane	ND	0.0050	0.0010	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromochloromethane	ND	0.0050	0.0012	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chloroform	ND	0.0050	0.00056	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Carbon tetrachloride	ND	0.0050	0.00071	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Butanone (MEK)	ND	0.0050	0.0015	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.0050	0.00060	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1-Dichloropropene	ND	0.0050	0.00080	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Tert-Amyl Methyl Ether (TAME)	ND	0.0050	0.00090	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Benzene	ND	0.0050	0.00094	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	0.0050	0.00070	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Trichloroethene (TCE)	ND	0.0050	0.00050	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Dibromomethane	ND	0.0050	0.00082	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dichloropropane	ND	0.0050	0.00072	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromodichloromethane	ND	0.0050	0.00064	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Methyl Methacrylate	ND	0.0050	0.0016	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Chloroethylvinyl ether	ND	0.10	0.0020	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.0050	0.00044	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Toluene	ND	0.0050	0.00078	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	0.0050	0.0016	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.0050	0.00056	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.0050	0.00070	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	

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Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-1
DD04004-01 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
1,1,2-Trichloroethane	ND	0.0050	0.00083	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethyl methacrylate	ND	0.0050	0.0038	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Dibromochloromethane	ND	0.0050	0.00055	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,3-Dichloropropane	ND	0.0050	0.00060	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.0050	0.00065	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Hexanone	ND	0.0050	0.0014	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethylbenzene	ND	0.0050	0.00076	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chlorobenzene	ND	0.0050	0.00082	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.0050	0.00054	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
m,p-Xylene	ND	0.0050	0.0014	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
o-Xylene	ND	0.0050	0.00048	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Styrene	ND	0.0050	0.00054	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromoform	ND	0.0050	0.00064	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Isopropylbenzene	ND	0.0050	0.00056	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
trans-1,4-Dichloro-2-butene	ND	0.0050	0.0012	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromobenzene	ND	0.0050	0.00048	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
n-Propylbenzene	ND	0.0050	0.00068	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.0050	0.00074	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.0050	0.00075	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Chlorotoluene	ND	0.0050	0.00058	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.0050	0.0011	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
4-Chlorotoluene	ND	0.0050	0.00061	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
tert-Butylbenzene	ND	0.0050	0.00065	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.0050	0.00066	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
sec-Butylbenzene	ND	0.0050	0.00062	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
p-Isopropyltoluene	ND	0.0050	0.00064	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,3-Dichlorobenzene	ND	0.0050	0.00074	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,4-Dichlorobenzene	ND	0.0050	0.00094	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
n-Butylbenzene	ND	0.0050	0.00077	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dichlorobenzene	ND	0.0050	0.00046	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.025	0.0019	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.0050	0.00068	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Hexachlorobutadiene	ND	0.0050	0.00082	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Naphthalene	ND	0.0050	0.0015	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.0050	0.00088	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Xylenes	ND	0.0050		mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Surrogate: Dibromofluoromethane	114 %	70-130				U7D0503	04/05/17	04/05/17	EPA 8260B	

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-1
DD04004-01 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics

D1

Surrogate: Toluene-d8	94.3 %	70-130			U7D0503	04/05/17	04/05/17	EPA 8260B
Surrogate: 4-Bromofluorobenzene	81.8 %	70-130			U7D0503	04/05/17	04/05/17	EPA 8260B



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Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-2
DD04004-02 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Inorganics

Cyanide (total)	3.9	1.0	0.45	mg/kg dry	1	U7D1701	04/17/17	04/17/17	EPA 9014	
% Solids	78	1.0	0.10	%	1	U7D1708	04/17/17	04/18/17	% Calculation	
Total Solids	78	0.10		%	1	U7D1708	04/17/17	04/18/17	SM 2540G	

Metals - Totals

Antimony	0.40	2.0	0.10	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	J
Arsenic	6.6	2.0	0.22	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Barium	300	2.0	0.13	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Beryllium	0.12	0.40	0.032	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	J
Cadmium	1.6	0.40	0.023	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Chromium	27	2.0	0.078	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Cobalt	2.2	0.80	0.022	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Copper	310	2.0	0.069	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Lead	31	2.0	0.16	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Mercury	1.2	0.079	0.019	mg/kg dry	1	U7D1401	04/14/17	04/14/17	EPA 7471A	
Molybdenum	9.5	2.0	0.13	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Nickel	15	2.0	0.091	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Selenium	6.6	5.0	0.36	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Silver	7.4	2.0	0.10	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Thallium	2.6	5.0	0.46	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	J
Vanadium	70	2.5	0.38	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Zinc	1200	2.0	0.060	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	

Metals - STLC Citrate Buffer

Antimony	0.14	0.40	0.026	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Arsenic	0.11	0.20	0.036	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Barium	5.8	0.40	0.0040	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Beryllium	0.0028	0.020	0.00020	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Cadmium	ND	0.020	0.0016	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Chromium	0.67	0.10	0.0070	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Cobalt	0.012	0.040	0.0052	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Copper	0.037	0.10	0.0064	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Lead	0.35	0.50	0.016	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Mercury	0.90	1.0	0.31	µg/L	1	U7D1804	04/18/17	04/18/17	EPA 7470A	D2, J
Molybdenum	0.24	0.10	0.0068	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Nickel	0.59	0.10	0.034	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Selenium	0.27	0.40	0.060	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Silver	0.023	0.10	0.0060	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J

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MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-2
DD04004-02 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Metals - STLC Citrate Buffer

Thallium	0.21	0.40	0.0040	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Vanadium	2.2	0.20	0.014	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Zinc	48	0.40	0.0080	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	

Semi-Volatile Organics

4,4'-DDD	ND	0.025	0.0030	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
4,4'-DDE	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
4,4'-DDT	ND	0.025	0.0090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Aldrin	ND	0.025	0.015	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
alpha-BHC	ND	0.025	0.015	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
alpha-Chlordane	0.0082	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	J
beta-BHC	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Chlordane (tech)	ND	0.090	0.090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
delta-BHC	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Dieleadrin	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endosulfan I	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Trifluralin	ND	0.025	0.0090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endosulfan II	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endosulfan sulfate	ND	0.025	0.0030	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endrin	ND	0.025	0.0090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endrin aldehyde	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endrin ketone	ND	0.025	0.0030	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
gamma-BHC (Lindane)	ND	0.025	0.018	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
gamma-Chlordane	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Heptachlor	ND	0.025	0.024	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Heptachlor epoxide	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Methoxychlor	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Toxaphene	ND	0.050	0.015	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Surrogate: Decachlorobiphenyl (DCB)	141 %	11.4-122				U7D0507	04/05/17	04/05/17	EPA 8081A	S02
Surrogate: Tetrachloro-meta-xylene (TMX)	78.8 %	8.5-170				U7D0507	04/05/17	04/05/17	EPA 8081A	
PCB-1016	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1221	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1232	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1242	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1248	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1254	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1260	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-2
DD04004-02 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semi-Volatile Organics

Surrogate: Decachlorobiphenyl (DCB)	95.0 %	17.2-156				U7D0508	04/05/17	04/07/17	EPA 8082	
Surrogate: Tetrachloro-meta-xylene (TMX)	65.0 %	20.6-119				U7D0508	04/05/17	04/07/17	EPA 8082	
N-Nitrosodimethylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
N-Nitrosomethylethylamine	ND	2.5	0.60	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Methyl Methanesulfonate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
N-Nitrosodiethylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Ethyl Methanesulfonate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Phenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Bis(2-chloroethyl)ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Chlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
1,4-Dichlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzyl alcohol	ND	2.5	0.52	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Bis(2-chloroisopropyl)ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Methylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Acetophenone	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
N-Nitrosopyrrolidine	ND	2.5	0.64	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Hexachloroethane	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
o-Toluidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Methylphenol	ND	2.5	0.65	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
N-Nitrosodi-n-propylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Nitrobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
N-Nitrosopiperidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Isophorone	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Nitrophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,4-Dimethylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Bis(2-chloroethoxy)methane	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,4-Dichlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
1,2,4-Trichlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzoic acid	ND	2.5	0.40	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Safrole	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,6-Dichlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
N-Nitrosodi-n-butylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Chloro-3-methylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Methylnaphthalene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Hexachlorocyclopentadiene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,4,5-Trichlorophenol	ND	2.5	0.56	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,4,6-Trichlorophenol	ND	2.5	0.87	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	

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Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-2
DD04004-02 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semi-Volatile Organics

2-Chloronaphthalene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Nitroaniline	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
1,4-Naphthoquinone	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Dimethyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Acenaphthylene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
1,3-Dinitrobenzene	ND	2.5	0.64	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,6-Dinitrotoluene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
3-Nitroaniline	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
5-Nitro-o-toluidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
1,2-Diphenylhydrazine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Acenaphthene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,4-Dinitrophenol	ND	2.5	0.70	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Pentachlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Nitrophenol	ND	2.5	0.86	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
1-Naphthylamine	ND	2.5	0.42	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,4-Dinitrotoluene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Naphthylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Fluorene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Diethyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Chlorophenyl phenyl ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Methapyrilene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Nitroaniline	ND	2.5	0.44	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Aminobiphenyl	ND	2.5	0.82	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Diphenylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
N-Nitrosodiphenylamine	ND	2.5	0.79	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4,6-Dinitro-2-methylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Phenacetin	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Pentachloronitrobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Bromophenyl phenyl ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Hexachlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Pentachlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Phenanthrene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Anthracene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Di-n-butyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Fluoranthene	0.40	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	J

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-2
DD04004-02 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semi-Volatile Organics

Pyrene	0.57	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	J
p-Dimethylaminoazobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
3,3'-Dimethylbenzidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Butyl benzyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Acetylaminofluorene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo (a) anthracene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Chrysene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Bis(2-ethylhexyl) phthalate	11	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Di-n-octyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo (b) fluoranthene	0.45	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	J
Benzo (k) fluoranthene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo (a) pyrene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
3,3'-Dichlorobenzidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
3-Methylcholanthrene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Indeno(1,2,3-cd)pyrene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Dibenzo(a,h)anthracene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo(ghi)perylene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
O,O,O-Triethyl phosphorothioate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Pronamide	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
<i>Surrogate: 2-Fluorophenol</i>	41.5 %	22-92				U7D0603	04/06/17	04/11/17	EPA 8270C	
<i>Surrogate: Phenol-d5</i>	49.6 %	10-94				U7D0603	04/06/17	04/11/17	EPA 8270C	
<i>Surrogate: Nitrobenzene-d5</i>	54.0 %	41-110				U7D0603	04/06/17	04/11/17	EPA 8270C	
<i>Surrogate: 2-Fluorobiphenyl</i>	66.4 %	40-92				U7D0603	04/06/17	04/11/17	EPA 8270C	
<i>Surrogate: 2,4,6-Tribromophenol</i>	52.3 %	49-138				U7D0603	04/06/17	04/11/17	EPA 8270C	
<i>Surrogate: d14-Terphenyl</i>	74.1 %	44-131				U7D0603	04/06/17	04/11/17	EPA 8270C	

Volatile Organics

Dichlorodifluoromethane (CFC-12)	ND	0.0050	0.00047	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	D1
Chloromethane	ND	0.0050	0.00066	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Vinyl chloride	ND	0.0050	0.00076	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromomethane	ND	0.0050	0.0035	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chloroethane	ND	0.0050	0.0010	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Trichlorodifluoromethane (CFC-11)	ND	0.0050	0.00076	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethanol	0.67	0.25	0.054	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Trichlorotrifluoroethane (CFC-113)	ND	0.0050	0.00085	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	0.00085	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-2
DD04004-02 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics D1										
1,1-Dichloroethene	ND	0.0050	0.00092	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Carbon disulfide	0.0080	0.0050	0.00066	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Iodomethane	ND	0.0050	0.0018	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Acrolein	ND	0.25	0.020	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Methylene chloride	ND	0.010	0.0015	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Acetone	0.25	0.10	0.0034	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.0050	0.00081	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
tert-Butyl alcohol (TBA)	ND	0.10	0.011	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	0.0050	0.0018	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Di-isopropyl ether (DIPE)	ND	0.0050	0.00074	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chloroprene	ND	0.0050	0.00081	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1-Dichloroethane	ND	0.0050	0.00040	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Acrylonitrile	ND	0.050	0.014	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethyl tert-Butyl Ether (ETBE)	ND	0.0050	0.00058	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Vinyl acetate	ND	0.0050	0.0022	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.0050	0.00036	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2,2-Dichloropropane	ND	0.0050	0.0010	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromochloromethane	ND	0.0050	0.0012	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chloroform	ND	0.0050	0.00056	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Carbon tetrachloride	ND	0.0050	0.00071	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Butanone (MEK)	ND	0.0050	0.0015	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.0050	0.00060	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1-Dichloropropene	ND	0.0050	0.00080	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Tert-Amyl Methyl Ether (TAME)	ND	0.0050	0.00090	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Benzene	ND	0.0050	0.00094	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	0.0050	0.00070	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Trichloroethene (TCE)	ND	0.0050	0.00050	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Dibromomethane	ND	0.0050	0.00082	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dichloropropane	ND	0.0050	0.00072	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromodichloromethane	ND	0.0050	0.00064	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Methyl Methacrylate	ND	0.0050	0.0016	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Chloroethylvinyl ether	ND	0.10	0.0020	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.0050	0.00044	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Toluene	ND	0.0050	0.00078	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	0.0050	0.0016	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.0050	0.00056	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.0050	0.00070	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	

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MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-2
DD04004-02 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
1,1,2-Trichloroethane	ND	0.0050	0.00083	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethyl methacrylate	ND	0.0050	0.0038	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Dibromochloromethane	ND	0.0050	0.00055	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,3-Dichloropropane	ND	0.0050	0.00060	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.0050	0.00065	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Hexanone	ND	0.0050	0.0014	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethylbenzene	ND	0.0050	0.00076	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chlorobenzene	ND	0.0050	0.00082	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.0050	0.00054	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
m,p-Xylene	ND	0.0050	0.0014	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
o-Xylene	ND	0.0050	0.00048	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Styrene	ND	0.0050	0.00054	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromoform	ND	0.0050	0.00064	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Isopropylbenzene	ND	0.0050	0.00056	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
trans-1,4-Dichloro-2-butene	ND	0.0050	0.0012	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromobenzene	ND	0.0050	0.00048	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
n-Propylbenzene	ND	0.0050	0.00068	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.0050	0.00074	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.0050	0.00075	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Chlorotoluene	ND	0.0050	0.00058	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.0050	0.0011	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
4-Chlorotoluene	ND	0.0050	0.00061	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
tert-Butylbenzene	ND	0.0050	0.00065	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.0050	0.00066	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
sec-Butylbenzene	ND	0.0050	0.00062	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
p-Isopropyltoluene	ND	0.0050	0.00064	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,3-Dichlorobenzene	ND	0.0050	0.00074	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,4-Dichlorobenzene	ND	0.0050	0.00094	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
n-Butylbenzene	ND	0.0050	0.00077	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dichlorobenzene	ND	0.0050	0.00046	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.025	0.0019	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.0050	0.00068	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Hexachlorobutadiene	ND	0.0050	0.00082	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Naphthalene	ND	0.0050	0.0015	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.0050	0.00088	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Xylenes	ND	0.0050		mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Surrogate: Dibromofluoromethane	102 %	70-130				U7D0503	04/05/17	04/05/17	EPA 8260B	

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Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-2
DD04004-02 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics

D1

Surrogate: Toluene-d8	97.2 %	70-130			U7D0503	04/05/17	04/05/17	EPA 8260B
Surrogate: 4-Bromofluorobenzene	90.2 %	70-130			U7D0503	04/05/17	04/05/17	EPA 8260B



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Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-3
DD04004-03 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Inorganics

Cyanide (total)	5.6	1.0	0.45	mg/kg dry	1	U7D1701	04/17/17	04/17/17	EPA 9014	
% Solids	75	1.0	0.10	%	1	U7D1708	04/17/17	04/18/17	% Calculation	
Total Solids	75	0.10		%	1	U7D1708	04/17/17	04/18/17	SM 2540G	

Metals - Totals

Antimony	ND	2.0	0.10	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Arsenic	6.8	2.0	0.22	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Barium	290	2.0	0.13	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Beryllium	0.13	0.40	0.032	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	J
Cadmium	1.5	0.40	0.023	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Chromium	28	2.0	0.078	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Cobalt	2.5	0.80	0.022	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Copper	290	2.0	0.069	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Lead	30	2.0	0.16	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Mercury	1.2	0.085	0.020	mg/kg dry	1	U7D1401	04/14/17	04/14/17	EPA 7471A	
Molybdenum	17	2.0	0.13	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Nickel	17	2.0	0.091	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Selenium	7.6	5.0	0.36	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Silver	7.1	2.0	0.10	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Thallium	3.3	5.0	0.46	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	J
Vanadium	71	2.5	0.38	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Zinc	1200	2.0	0.060	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	

Metals - STLC Citrate Buffer

Antimony	0.078	0.40	0.026	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Arsenic	0.081	0.20	0.036	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Barium	5.8	0.40	0.0040	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Beryllium	0.0039	0.020	0.00020	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Cadmium	0.0093	0.020	0.0016	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Chromium	0.76	0.10	0.0070	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Cobalt	0.017	0.040	0.0052	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Copper	0.056	0.10	0.0064	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Lead	0.36	0.50	0.016	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Mercury	0.83	1.0	0.31	µg/L	1	U7D1804	04/18/17	04/18/17	EPA 7470A	D2, J
Molybdenum	0.25	0.10	0.0068	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Nickel	0.65	0.10	0.034	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Selenium	0.23	0.40	0.060	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Silver	0.033	0.10	0.0060	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-3
DD04004-03 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Metals - STLC Citrate Buffer

Thallium	0.20	0.40	0.0040	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Vanadium	2.4	0.20	0.014	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Zinc	57	0.40	0.0080	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	

Semi-Volatile Organics

4,4'-DDD	ND	0.025	0.0030	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
4,4'-DDE	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
4,4'-DDT	ND	0.025	0.0090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Aldrin	ND	0.025	0.015	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
alpha-BHC	ND	0.025	0.015	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
alpha-Chlordane	0.014	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	J
beta-BHC	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Chlordane (tech)	ND	0.090	0.090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
delta-BHC	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Dieleadrin	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endosulfan I	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Trifluralin	ND	0.025	0.0090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endosulfan II	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endosulfan sulfate	ND	0.025	0.0030	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endrin	ND	0.025	0.0090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endrin aldehyde	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endrin ketone	ND	0.025	0.0030	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
gamma-BHC (Lindane)	ND	0.025	0.018	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
gamma-Chlordane	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Heptachlor	ND	0.025	0.024	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Heptachlor epoxide	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Methoxychlor	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Toxaphene	ND	0.050	0.015	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Surrogate: Decachlorobiphenyl (DCB)	185 %	11.4-122				U7D0507	04/05/17	04/05/17	EPA 8081A	S02
Surrogate: Tetrachloro-meta-xylene (TMX)	97.9 %	8.5-170				U7D0507	04/05/17	04/05/17	EPA 8081A	
PCB-1016	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1221	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1232	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1242	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1248	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1254	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1260	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-3
DD04004-03 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semi-Volatile Organics

Surrogate: Decachlorobiphenyl (DCB)	100 %	17.2-156			U7D0508	04/05/17	04/07/17	EPA 8082	
Surrogate: Tetrachloro-meta-xylene (TMX)	77.0 %	20.6-119			U7D0508	04/05/17	04/07/17	EPA 8082	
N-Nitrosodimethylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
N-Nitrosomethylethylamine	ND	2.5	0.60	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Methyl Methanesulfonate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
N-Nitrosodiethylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Ethyl Methanesulfonate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Phenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Bis(2-chloroethyl)ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2-Chlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
1,4-Dichlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Benzyl alcohol	ND	2.5	0.52	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Bis(2-chloroisopropyl)ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2-Methylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Acetophenone	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
N-Nitrosopyrrolidine	ND	2.5	0.64	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Hexachloroethane	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
o-Toluidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
4-Methylphenol	ND	2.5	0.65	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
N-Nitrosodi-n-propylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Nitrobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
N-Nitrosopiperidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Isophorone	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2-Nitrophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2,4-Dimethylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Bis(2-chloroethoxy)methane	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2,4-Dichlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
1,2,4-Trichlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Benzoic acid	ND	2.5	0.40	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Safrole	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2,6-Dichlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
N-Nitrosodi-n-butylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
4-Chloro-3-methylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2-Methylnaphthalene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Hexachlorocyclopentadiene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2,4,5-Trichlorophenol	ND	2.5	0.56	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2,4,6-Trichlorophenol	ND	2.5	0.87	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-3
DD04004-03 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semi-Volatile Organics

2-Chloronaphthalene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Nitroaniline	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
1,4-Naphthoquinone	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Dimethyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Acenaphthylene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
1,3-Dinitrobenzene	ND	2.5	0.64	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,6-Dinitrotoluene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
3-Nitroaniline	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
5-Nitro-o-toluidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
1,2-Diphenylhydrazine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Acenaphthene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,4-Dinitrophenol	ND	2.5	0.70	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Pentachlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Nitrophenol	ND	2.5	0.86	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
1-Naphthylamine	ND	2.5	0.42	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,4-Dinitrotoluene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Naphthylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Fluorene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Diethyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Chlorophenyl phenyl ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Methapyrilene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Nitroaniline	ND	2.5	0.44	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Aminobiphenyl	ND	2.5	0.82	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Diphenylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
N-Nitrosodiphenylamine	ND	2.5	0.79	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4,6-Dinitro-2-methylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Phenacetin	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Pentachloronitrobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Bromophenyl phenyl ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Hexachlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Pentachlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Phenanthrene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Anthracene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Di-n-butyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Fluoranthene	0.38	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	J

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MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 4/26/17
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S-3
DD04004-03 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semi-Volatile Organics

Pyrene	0.73	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	J
p-Dimethylaminoazobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
3,3'-Dimethylbenzidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Butyl benzyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Acetylaminofluorene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo (a) anthracene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Chrysene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Bis(2-ethylhexyl) phthalate	15	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Di-n-octyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo (b) fluoranthene	0.52	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	J
Benzo (k) fluoranthene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo (a) pyrene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
3,3'-Dichlorobenzidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
3-Methylcholanthrene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Indeno(1,2,3-cd)pyrene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Dibenzo(a,h)anthracene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo(ghi)perylene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
O,O,O-Triethyl phosphorothioate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Pronamide	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
<i>Surrogate: 2-Fluorophenol</i>	38.3 %	22-92				U7D0603	04/06/17	04/11/17	EPA 8270C	
<i>Surrogate: Phenol-d5</i>	53.9 %	10-94				U7D0603	04/06/17	04/11/17	EPA 8270C	
<i>Surrogate: Nitrobenzene-d5</i>	53.6 %	41-110				U7D0603	04/06/17	04/11/17	EPA 8270C	
<i>Surrogate: 2-Fluorobiphenyl</i>	78.1 %	40-92				U7D0603	04/06/17	04/11/17	EPA 8270C	
<i>Surrogate: 2,4,6-Tribromophenol</i>	53.1 %	49-138				U7D0603	04/06/17	04/11/17	EPA 8270C	
<i>Surrogate: d14-Terphenyl</i>	97.2 %	44-131				U7D0603	04/06/17	04/11/17	EPA 8270C	

Volatile Organics

Dichlorodifluoromethane (CFC-12)	ND	0.0050	0.00047	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	D1
Chloromethane	ND	0.0050	0.00066	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Vinyl chloride	ND	0.0050	0.00076	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromomethane	ND	0.0050	0.0035	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chloroethane	ND	0.0050	0.0010	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Trichlorofluoromethane (CFC-11)	ND	0.0050	0.00076	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethanol	3.1	0.25	0.054	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	0.00085	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Trichlorotrifluoroethane (CFC-113)	ND	0.0050	0.00085	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-3
DD04004-03 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics										D1
1,1-Dichloroethene	ND	0.0050	0.00092	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Carbon disulfide	0.017	0.0050	0.00066	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Iodomethane	ND	0.0050	0.0018	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Acrolein	ND	0.25	0.020	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Methylene chloride	ND	0.010	0.0015	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Acetone	0.23	0.10	0.0034	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.0050	0.00081	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
tert-Butyl alcohol (TBA)	ND	0.10	0.011	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	0.0050	0.0018	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Di-isopropyl ether (DIPE)	ND	0.0050	0.00074	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chloroprene	ND	0.0050	0.00081	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1-Dichloroethane	ND	0.0050	0.00040	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Acrylonitrile	ND	0.050	0.014	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethyl tert-Butyl Ether (ETBE)	ND	0.0050	0.00058	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Vinyl acetate	ND	0.0050	0.0022	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.0050	0.00036	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2,2-Dichloropropane	ND	0.0050	0.0010	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromochloromethane	ND	0.0050	0.0012	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chloroform	ND	0.0050	0.00056	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Carbon tetrachloride	ND	0.0050	0.00071	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Butanone (MEK)	0.080	0.0050	0.0015	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.0050	0.00060	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1-Dichloropropene	ND	0.0050	0.00080	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Tert-Amyl Methyl Ether (TAME)	ND	0.0050	0.00090	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Benzene	ND	0.0050	0.00094	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	0.0050	0.00070	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Trichloroethene (TCE)	ND	0.0050	0.00050	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Dibromomethane	ND	0.0050	0.00082	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dichloropropane	ND	0.0050	0.00072	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromodichloromethane	ND	0.0050	0.00064	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Methyl Methacrylate	ND	0.0050	0.0016	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Chloroethylvinyl ether	ND	0.10	0.0020	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.0050	0.00044	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Toluene	ND	0.0050	0.00078	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	0.0050	0.0016	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.0050	0.00056	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.0050	0.00070	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-3
DD04004-03 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
1,1,2-Trichloroethane	ND	0.0050	0.00083	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethyl methacrylate	ND	0.0050	0.0038	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Dibromochloromethane	ND	0.0050	0.00055	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,3-Dichloropropane	ND	0.0050	0.00060	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.0050	0.00065	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Hexanone	ND	0.0050	0.0014	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethylbenzene	ND	0.0050	0.00076	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chlorobenzene	ND	0.0050	0.00082	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.0050	0.00054	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
m,p-Xylene	ND	0.0050	0.0014	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
o-Xylene	ND	0.0050	0.00048	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Styrene	ND	0.0050	0.00054	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromoform	ND	0.0050	0.00064	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Isopropylbenzene	ND	0.0050	0.00056	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
trans-1,4-Dichloro-2-butene	ND	0.0050	0.0012	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromobenzene	ND	0.0050	0.00048	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
n-Propylbenzene	ND	0.0050	0.00068	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.0050	0.00074	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.0050	0.00075	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Chlorotoluene	ND	0.0050	0.00058	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.0050	0.0011	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
4-Chlorotoluene	ND	0.0050	0.00061	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
tert-Butylbenzene	ND	0.0050	0.00065	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.0050	0.00066	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
sec-Butylbenzene	ND	0.0050	0.00062	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
p-Isopropyltoluene	0.019	0.0050	0.00064	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,3-Dichlorobenzene	ND	0.0050	0.00074	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,4-Dichlorobenzene	ND	0.0050	0.00094	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
n-Butylbenzene	ND	0.0050	0.00077	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dichlorobenzene	ND	0.0050	0.00046	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.025	0.0019	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.0050	0.00068	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Hexachlorobutadiene	ND	0.0050	0.00082	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Naphthalene	ND	0.0050	0.0015	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.0050	0.00088	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Xylenes	ND	0.0050		mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
<i>Surrogate: Dibromofluoromethane</i>	<i>105 %</i>	<i>70-130</i>				<i>U7D0503</i>	<i>04/05/17</i>	<i>04/05/17</i>	<i>EPA 8260B</i>	

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MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-3
DD04004-03 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics

D1

Surrogate: Toluene-d8	94.9 %	70-130			U7D0503	04/05/17	04/05/17	EPA 8260B
Surrogate: 4-Bromofluorobenzene	88.3 %	70-130			U7D0503	04/05/17	04/05/17	EPA 8260B



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Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-4
DD04004-04 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Inorganics

Cyanide (total)	6.3	1.0	0.45	mg/kg dry	1	U7D1701	04/17/17	04/17/17	EPA 9014	
% Solids	73	1.0	0.10	%	1	U7D1708	04/17/17	04/18/17	% Calculation	
Total Solids	73	0.10		%	1	U7D1708	04/17/17	04/18/17	SM 2540G	

Metals - Totals

Antimony	1.1	2.0	0.10	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	J
Arsenic	7.4	2.0	0.22	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Barium	330	2.0	0.13	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Beryllium	0.13	0.40	0.032	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	J
Cadmium	1.7	0.40	0.023	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Chromium	31	2.0	0.078	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Cobalt	2.5	0.80	0.022	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Copper	360	2.0	0.069	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Lead	40	2.0	0.16	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Mercury	1.3	0.082	0.019	mg/kg dry	1	U7D1401	04/14/17	04/14/17	EPA 7471A	
Molybdenum	16	2.0	0.13	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Nickel	18	2.0	0.091	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Selenium	7.8	5.0	0.36	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Silver	11	2.0	0.10	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Thallium	3.8	5.0	0.46	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	J
Vanadium	82	2.5	0.38	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Zinc	1400	2.0	0.060	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	

Metals - STLC Citrate Buffer

Antimony	0.20	0.40	0.026	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Arsenic	0.23	0.20	0.036	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Barium	5.5	0.40	0.0040	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Beryllium	0.0036	0.020	0.00020	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Cadmium	ND	0.020	0.0016	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Chromium	0.62	0.10	0.0070	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Cobalt	0.019	0.040	0.0052	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Copper	0.080	0.10	0.0064	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Lead	0.39	0.50	0.016	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Mercury	1.1	1.0	0.31	µg/L	1	U7D1804	04/18/17	04/18/17	EPA 7470A	D2
Molybdenum	0.22	0.10	0.0068	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Nickel	0.48	0.10	0.034	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Selenium	0.27	0.40	0.060	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Silver	0.019	0.10	0.0060	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-4
DD04004-04 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Metals - STLC Citrate Buffer

Thallium	0.23	0.40	0.0040	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Vanadium	1.7	0.20	0.014	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Zinc	41	0.40	0.0080	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	

Semi-Volatile Organics

4,4'-DDD	ND	0.025	0.0030	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
4,4'-DDE	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
4,4'-DDT	ND	0.025	0.0090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Aldrin	ND	0.025	0.015	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
alpha-BHC	ND	0.025	0.015	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
alpha-Chlordane	0.0086	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	J
beta-BHC	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Chlordane (tech)	ND	0.090	0.090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
delta-BHC	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Dieleadrin	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endosulfan I	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Trifluralin	ND	0.025	0.0090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endosulfan II	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endosulfan sulfate	ND	0.025	0.0030	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endrin	ND	0.025	0.0090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endrin aldehyde	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endrin ketone	ND	0.025	0.0030	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
gamma-BHC (Lindane)	ND	0.025	0.018	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
gamma-Chlordane	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Heptachlor	ND	0.025	0.024	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Heptachlor epoxide	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Methoxychlor	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Toxaphene	ND	0.050	0.015	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
<i>Surrogate: Decachlorobiphenyl (DCB)</i>	<i>159 %</i>	<i>11.4-122</i>				<i>U7D0507</i>	<i>04/05/17</i>	<i>04/05/17</i>	<i>EPA 8081A</i>	<i>S02</i>
<i>Surrogate: Tetrachloro-meta-xylene (TMX)</i>	<i>78.5 %</i>	<i>8.5-170</i>				<i>U7D0507</i>	<i>04/05/17</i>	<i>04/05/17</i>	<i>EPA 8081A</i>	
PCB-1016	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1221	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1232	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1242	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1248	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1254	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1260	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-4
DD04004-04 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semi-Volatile Organics

Surrogate: Decachlorobiphenyl (DCB)	86.0 %	17.2-156			U7D0508	04/05/17	04/07/17	EPA 8082	
Surrogate: Tetrachloro-meta-xylene (TMX)	63.0 %	20.6-119			U7D0508	04/05/17	04/07/17	EPA 8082	
N-Nitrosodimethylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
N-Nitrosomethylethylamine	ND	2.5	0.60	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Methyl Methanesulfonate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
N-Nitrosodiethylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Ethyl Methanesulfonate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Phenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Bis(2-chloroethyl)ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2-Chlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
1,4-Dichlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Benzyl alcohol	ND	2.5	0.52	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Bis(2-chloroisopropyl)ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2-Methylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Acetophenone	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
N-Nitrosopyrrolidine	ND	2.5	0.64	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Hexachloroethane	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
o-Toluidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
4-Methylphenol	ND	2.5	0.65	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
N-Nitrosodi-n-propylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Nitrobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
N-Nitrosopiperidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Isophorone	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2-Nitrophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2,4-Dimethylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Bis(2-chloroethoxy)methane	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2,4-Dichlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
1,2,4-Trichlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Benzoic acid	ND	2.5	0.40	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Safrole	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2,6-Dichlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
N-Nitrosodi-n-butylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
4-Chloro-3-methylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2-Methylnaphthalene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Hexachlorocyclopentadiene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2,4,5-Trichlorophenol	ND	2.5	0.56	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2,4,6-Trichlorophenol	ND	2.5	0.87	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C

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MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-4
DD04004-04 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semi-Volatile Organics

2-Chloronaphthalene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2-Nitroaniline	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
1,4-Naphthoquinone	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Dimethyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Acenaphthylene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
1,3-Dinitrobenzene	ND	2.5	0.64	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2,6-Dinitrotoluene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
3-Nitroaniline	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
5-Nitro-o-toluidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
1,2-Diphenylhydrazine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Acenaphthene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2,4-Dinitrophenol	ND	2.5	0.70	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Pentachlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
4-Nitrophenol	ND	2.5	0.86	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
1-Naphthylamine	ND	2.5	0.42	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2,4-Dinitrotoluene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2-Naphthylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2,3,4,6-Tetrachlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Fluorene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Diethyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
4-Chlorophenyl phenyl ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Methapyrilene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
4-Nitroaniline	ND	2.5	0.44	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
4-Aminobiphenyl	ND	2.5	0.82	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Diphenylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Benzidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
N-Nitrosodiphenylamine	ND	2.5	0.79	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
4,6-Dinitro-2-methylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Phenacetin	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Pentachloronitrobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
4-Bromophenyl phenyl ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Hexachlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Pentachlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Phenanthrene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Anthracene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Di-n-butyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Fluoranthene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C

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Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-4
DD04004-04 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semi-Volatile Organics

Pyrene	0.95	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	J
p-Dimethylaminoazobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
3,3'-Dimethylbenzidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Butyl benzyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Acetylaminofluorene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo (a) anthracene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Chrysene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Bis(2-ethylhexyl) phthalate	15	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Di-n-octyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo (b) fluoranthene	0.57	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	J
Benzo (k) fluoranthene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo (a) pyrene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
3,3'-Dichlorobenzidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
3-Methylcholanthrene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Indeno(1,2,3-cd)pyrene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Dibenzo(a,h)anthracene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo(ghi)perylene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
O,O,O-Triethyl phosphorothioate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Pronamide	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
<i>Surrogate: 2-Fluorophenol</i>	31.2 %	22-92				U7D0603	04/06/17	04/11/17	EPA 8270C	
<i>Surrogate: Phenol-d5</i>	43.1 %	10-94				U7D0603	04/06/17	04/11/17	EPA 8270C	
<i>Surrogate: Nitrobenzene-d5</i>	43.0 %	41-110				U7D0603	04/06/17	04/11/17	EPA 8270C	
<i>Surrogate: 2-Fluorobiphenyl</i>	56.8 %	40-92				U7D0603	04/06/17	04/11/17	EPA 8270C	
<i>Surrogate: 2,4,6-Tribromophenol</i>	43.4 %	49-138				U7D0603	04/06/17	04/11/17	EPA 8270C	S02
<i>Surrogate: d14-Terphenyl</i>	97.3 %	44-131				U7D0603	04/06/17	04/11/17	EPA 8270C	

Volatile Organics

Dichlorodifluoromethane (CFC-12)	ND	0.0050	0.00047	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	D1
Chloromethane	ND	0.0050	0.00066	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Vinyl chloride	ND	0.0050	0.00076	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromomethane	ND	0.0050	0.0035	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chloroethane	ND	0.0050	0.0010	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Trichlorodifluoromethane (CFC-11)	ND	0.0050	0.00076	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethanol	ND	0.25	0.054	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Trichlorotrifluoroethane (CFC-113)	ND	0.0050	0.00085	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	0.00085	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-4
DD04004-04 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics											D1
1,1-Dichloroethene	ND	0.0050	0.00092	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Carbon disulfide	0.024	0.0050	0.00066	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Iodomethane	ND	0.0050	0.0018	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Acrolein	ND	0.25	0.020	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Methylene chloride	ND	0.010	0.0015	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Acetone	0.83	0.10	0.0034	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
trans-1,2-Dichloroethene	ND	0.0050	0.00081	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
tert-Butyl alcohol (TBA)	ND	0.10	0.011	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Methyl tert-Butyl Ether (MTBE)	ND	0.0050	0.0018	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Di-isopropyl ether (DIPE)	ND	0.0050	0.00074	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Chloroprene	ND	0.0050	0.00081	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
1,1-Dichloroethane	ND	0.0050	0.00040	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Acrylonitrile	ND	0.050	0.014	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Ethyl tert-Butyl Ether (ETBE)	ND	0.0050	0.00058	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Vinyl acetate	ND	0.0050	0.0022	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
cis-1,2-Dichloroethene	ND	0.0050	0.00036	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
2,2-Dichloropropane	ND	0.0050	0.0010	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Bromochloromethane	ND	0.0050	0.0012	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Chloroform	ND	0.0050	0.00056	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Carbon tetrachloride	ND	0.0050	0.00071	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
2-Butanone (MEK)	0.21	0.0050	0.0015	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
1,1,1-Trichloroethane (TCA)	ND	0.0050	0.00060	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
1,1-Dichloropropene	ND	0.0050	0.00080	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Tert-Amyl Methyl Ether (TAME)	ND	0.0050	0.00090	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Benzene	ND	0.0050	0.00094	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
1,2-Dichloroethane (1,2-DCA)	ND	0.0050	0.00070	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Trichloroethene (TCE)	ND	0.0050	0.00050	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Dibromomethane	ND	0.0050	0.00082	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
1,2-Dichloropropane	ND	0.0050	0.00072	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Bromodichloromethane	ND	0.0050	0.00064	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Methyl Methacrylate	ND	0.0050	0.0016	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
2-Chloroethylvinyl ether	ND	0.10	0.0020	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
cis-1,3-Dichloropropene	ND	0.0050	0.00044	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Toluene	ND	0.0050	0.00078	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
4-Methyl-2-pentanone (MIBK)	ND	0.0050	0.0016	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
trans-1,3-Dichloropropene	ND	0.0050	0.00056	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Tetrachloroethene (PCE)	ND	0.0050	0.00070	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-4
DD04004-04 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
1,1,2-Trichloroethane	ND	0.0050	0.00083	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethyl methacrylate	ND	0.0050	0.0038	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Dibromochloromethane	ND	0.0050	0.00055	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,3-Dichloropropane	ND	0.0050	0.00060	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.0050	0.00065	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Hexanone	ND	0.0050	0.0014	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethylbenzene	ND	0.0050	0.00076	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chlorobenzene	ND	0.0050	0.00082	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.0050	0.00054	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
m,p-Xylene	ND	0.0050	0.0014	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
o-Xylene	ND	0.0050	0.00048	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Styrene	ND	0.0050	0.00054	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromoform	ND	0.0050	0.00064	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Isopropylbenzene	ND	0.0050	0.00056	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
trans-1,4-Dichloro-2-butene	ND	0.0050	0.0012	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromobenzene	ND	0.0050	0.00048	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
n-Propylbenzene	ND	0.0050	0.00068	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.0050	0.00074	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.0050	0.00075	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Chlorotoluene	ND	0.0050	0.00058	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.0050	0.0011	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
4-Chlorotoluene	ND	0.0050	0.00061	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
tert-Butylbenzene	ND	0.0050	0.00065	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.0050	0.00066	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
sec-Butylbenzene	ND	0.0050	0.00062	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
p-Isopropyltoluene	0.0065	0.0050	0.00064	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,3-Dichlorobenzene	ND	0.0050	0.00074	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,4-Dichlorobenzene	ND	0.0050	0.00094	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
n-Butylbenzene	ND	0.0050	0.00077	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dichlorobenzene	ND	0.0050	0.00046	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.025	0.0019	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.0050	0.00068	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Hexachlorobutadiene	ND	0.0050	0.00082	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Naphthalene	ND	0.0050	0.0015	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.0050	0.00088	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Xylenes	ND	0.0050		mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Surrogate: Dibromofluoromethane	97.2 %	70-130				U7D0503	04/05/17	04/05/17	EPA 8260B	

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MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-4
DD04004-04 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics

D1

Surrogate: Toluene-d8	96.2 %	70-130			U7D0503	04/05/17	04/05/17	EPA 8260B
Surrogate: 4-Bromofluorobenzene	89.4 %	70-130			U7D0503	04/05/17	04/05/17	EPA 8260B



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Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-5
DD04004-05 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Inorganics

Cyanide (total)	2.8	1.0	0.45	mg/kg dry	1	U7D1701	04/17/17	04/17/17	EPA 9014	
% Solids	58	1.0	0.10	%	1	U7D1708	04/17/17	04/18/17	% Calculation	
Total Solids	58	0.10		%	1	U7D1708	04/17/17	04/18/17	SM 2540G	

Metals - Totals

Antimony	ND	2.0	0.10	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Arsenic	5.5	2.0	0.22	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Barium	270	2.0	0.13	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Beryllium	0.13	0.40	0.032	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	J
Cadmium	1.5	0.40	0.023	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Chromium	26	2.0	0.078	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Cobalt	2.1	0.80	0.022	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Copper	250	2.0	0.069	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Lead	29	2.0	0.16	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Mercury	1.2	0.075	0.018	mg/kg dry	1	U7D1401	04/14/17	04/14/17	EPA 7471A	
Molybdenum	14	2.0	0.13	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Nickel	16	2.0	0.091	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Selenium	7.8	5.0	0.36	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Silver	6.3	2.0	0.10	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Thallium	3.2	5.0	0.46	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	J
Vanadium	66	2.5	0.38	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Zinc	1000	2.0	0.060	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	

Metals - STLC Citrate Buffer

Antimony	0.12	0.40	0.026	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Arsenic	0.23	0.20	0.036	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Barium	6.1	0.40	0.0040	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Beryllium	0.0027	0.020	0.00020	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Cadmium	ND	0.020	0.0016	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Chromium	0.61	0.10	0.0070	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Cobalt	0.0052	0.040	0.0052	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Copper	0.052	0.10	0.0064	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Lead	0.45	0.50	0.016	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Mercury	1.2	1.0	0.31	µg/L	1	U7D1804	04/18/17	04/18/17	EPA 7470A	D2
Molybdenum	0.19	0.10	0.0068	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Nickel	0.48	0.10	0.034	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Selenium	0.15	0.40	0.060	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Silver	0.024	0.10	0.0060	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J

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MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-5
DD04004-05 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Metals - STLC Citrate Buffer

Thallium	0.13	0.40	0.0040	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Vanadium	1.8	0.20	0.014	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Zinc	35	0.40	0.0080	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	

Semi-Volatile Organics

4,4'-DDD	ND	0.025	0.0030	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
4,4'-DDE	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
4,4'-DDT	ND	0.025	0.0090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Aldrin	ND	0.025	0.015	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
alpha-BHC	ND	0.025	0.015	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
alpha-Chlordane	0.0095	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	J
beta-BHC	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Chlordane (tech)	ND	0.090	0.090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
delta-BHC	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Dieleadrin	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endosulfan I	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Trifluralin	ND	0.025	0.0090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endosulfan II	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endosulfan sulfate	ND	0.025	0.0030	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endrin	ND	0.025	0.0090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endrin aldehyde	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endrin ketone	ND	0.025	0.0030	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
gamma-BHC (Lindane)	ND	0.025	0.018	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
gamma-Chlordane	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Heptachlor	ND	0.025	0.024	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Heptachlor epoxide	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Methoxychlor	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Toxaphene	ND	0.050	0.015	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
<i>Surrogate: Decachlorobiphenyl (DCB)</i>	<i>168 %</i>	<i>11.4-122</i>				<i>U7D0507</i>	<i>04/05/17</i>	<i>04/05/17</i>	<i>EPA 8081A</i>	<i>S02</i>
<i>Surrogate: Tetrachloro-meta-xylene (TMX)</i>	<i>88.7 %</i>	<i>8.5-170</i>				<i>U7D0507</i>	<i>04/05/17</i>	<i>04/05/17</i>	<i>EPA 8081A</i>	
PCB-1016	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1221	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1232	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1242	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1248	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1254	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1260	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-5
DD04004-05 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semi-Volatile Organics

Surrogate: Decachlorobiphenyl (DCB)	95.0 %	17.2-156				U7D0508	04/05/17	04/07/17	EPA 8082	
Surrogate: Tetrachloro-meta-xylene (TMX)	68.0 %	20.6-119				U7D0508	04/05/17	04/07/17	EPA 8082	
N-Nitrosodimethylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
N-Nitrosomethylethylamine	ND	2.5	0.60	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Methyl Methanesulfonate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
N-Nitrosodiethylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Ethyl Methanesulfonate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Phenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Bis(2-chloroethyl)ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Chlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
1,4-Dichlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzyl alcohol	ND	2.5	0.52	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Bis(2-chloroisopropyl)ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Methylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Acetophenone	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
N-Nitrosopyrrolidine	ND	2.5	0.64	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Hexachloroethane	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
o-Toluidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Methylphenol	ND	2.5	0.65	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
N-Nitrosodi-n-propylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Nitrobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
N-Nitrosopiperidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Isophorone	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Nitrophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,4-Dimethylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Bis(2-chloroethoxy)methane	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,4-Dichlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
1,2,4-Trichlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzoic acid	ND	2.5	0.40	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Safrole	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,6-Dichlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
N-Nitrosodi-n-butylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Chloro-3-methylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Methylnaphthalene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Hexachlorocyclopentadiene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,4,5-Trichlorophenol	ND	2.5	0.56	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,4,6-Trichlorophenol	ND	2.5	0.87	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-5
DD04004-05 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semi-Volatile Organics

2-Chloronaphthalene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Nitroaniline	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
1,4-Naphthoquinone	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Dimethyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Acenaphthylene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
1,3-Dinitrobenzene	ND	2.5	0.64	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,6-Dinitrotoluene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
3-Nitroaniline	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
5-Nitro-o-toluidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
1,2-Diphenylhydrazine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Acenaphthene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,4-Dinitrophenol	ND	2.5	0.70	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Pentachlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Nitrophenol	ND	2.5	0.86	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
1-Naphthylamine	ND	2.5	0.42	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,4-Dinitrotoluene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Naphthylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Fluorene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Diethyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Chlorophenyl phenyl ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Methapyrilene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Nitroaniline	ND	2.5	0.44	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Aminobiphenyl	ND	2.5	0.82	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Diphenylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
N-Nitrosodiphenylamine	ND	2.5	0.79	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4,6-Dinitro-2-methylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Phenacetin	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Pentachloronitrobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Bromophenyl phenyl ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Hexachlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Pentachlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Phenanthrene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Anthracene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Di-n-butyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Fluoranthene	0.46	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	J

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MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-5
DD04004-05 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semi-Volatile Organics

Pyrene	1.4	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	J
p-Dimethylaminoazobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
3,3'-Dimethylbenzidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Butyl benzyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Acetylaminofluorene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo (a) anthracene	0.43	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	J
Chrysene	0.44	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	J
Bis(2-ethylhexyl) phthalate	18	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Di-n-octyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo (b) fluoranthene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo (k) fluoranthene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo (a) pyrene	0.38	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	J
3,3'-Dichlorobenzidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
3-Methylcholanthrene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Indeno(1,2,3-cd)pyrene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Dibenzo(a,h)anthracene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo(ghi)perylene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
O,O,O-Triethyl phosphorothioate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Pronamide	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
<i>Surrogate: 2-Fluorophenol</i>	<i>33.0 %</i>	<i>22-92</i>				<i>U7D0603</i>	<i>04/06/17</i>	<i>04/11/17</i>	<i>EPA 8270C</i>	
<i>Surrogate: Phenol-d5</i>	<i>46.1 %</i>	<i>10-94</i>				<i>U7D0603</i>	<i>04/06/17</i>	<i>04/11/17</i>	<i>EPA 8270C</i>	
<i>Surrogate: Nitrobenzene-d5</i>	<i>49.6 %</i>	<i>41-110</i>				<i>U7D0603</i>	<i>04/06/17</i>	<i>04/11/17</i>	<i>EPA 8270C</i>	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>59.5 %</i>	<i>40-92</i>				<i>U7D0603</i>	<i>04/06/17</i>	<i>04/11/17</i>	<i>EPA 8270C</i>	
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>45.5 %</i>	<i>49-138</i>				<i>U7D0603</i>	<i>04/06/17</i>	<i>04/11/17</i>	<i>EPA 8270C</i>	<i>S02</i>
<i>Surrogate: d14-Terphenyl</i>	<i>103 %</i>	<i>44-131</i>				<i>U7D0603</i>	<i>04/06/17</i>	<i>04/11/17</i>	<i>EPA 8270C</i>	

Volatile Organics

Dichlorodifluoromethane (CFC-12)	ND	0.0050	0.00047	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	D1
Chloromethane	ND	0.0050	0.00066	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Vinyl chloride	ND	0.0050	0.00076	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromomethane	ND	0.0050	0.0035	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chloroethane	ND	0.0050	0.0010	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Trichlorodifluoromethane (CFC-11)	ND	0.0050	0.00076	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethanol	3.2	0.25	0.054	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	0.00085	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Trichlorotrifluoroethane (CFC-113)	ND	0.0050	0.00085	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	

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Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-5
DD04004-05 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics										D1
1,1-Dichloroethene	ND	0.0050	0.00092	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Carbon disulfide	0.0093	0.0050	0.00066	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Iodomethane	ND	0.0050	0.0018	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Acrolein	ND	0.25	0.020	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Methylene chloride	ND	0.010	0.0015	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Acetone	0.46	0.10	0.0034	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.0050	0.00081	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
tert-Butyl alcohol (TBA)	ND	0.10	0.011	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	0.0050	0.0018	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Di-isopropyl ether (DIPE)	ND	0.0050	0.00074	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chloroprene	ND	0.0050	0.00081	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1-Dichloroethane	ND	0.0050	0.00040	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Acrylonitrile	ND	0.050	0.014	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethyl tert-Butyl Ether (ETBE)	ND	0.0050	0.00058	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Vinyl acetate	ND	0.0050	0.0022	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.0050	0.00036	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2,2-Dichloropropane	ND	0.0050	0.0010	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromochloromethane	ND	0.0050	0.0012	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chloroform	ND	0.0050	0.00056	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Carbon tetrachloride	ND	0.0050	0.00071	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Butanone (MEK)	0.15	0.0050	0.0015	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.0050	0.00060	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1-Dichloropropene	ND	0.0050	0.00080	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Tert-Amyl Methyl Ether (TAME)	ND	0.0050	0.00090	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Benzene	ND	0.0050	0.00094	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	0.0050	0.00070	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Trichloroethene (TCE)	ND	0.0050	0.00050	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Dibromomethane	ND	0.0050	0.00082	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dichloropropane	ND	0.0050	0.00072	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromodichloromethane	ND	0.0050	0.00064	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Methyl Methacrylate	ND	0.0050	0.0016	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Chloroethylvinyl ether	ND	0.10	0.0020	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.0050	0.00044	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Toluene	ND	0.0050	0.00078	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	0.0050	0.0016	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.0050	0.00056	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.0050	0.00070	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-5
DD04004-05 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
1,1,2-Trichloroethane	ND	0.0050	0.00083	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethyl methacrylate	ND	0.0050	0.0038	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Dibromochloromethane	ND	0.0050	0.00055	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,3-Dichloropropane	ND	0.0050	0.00060	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.0050	0.00065	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Hexanone	ND	0.0050	0.0014	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethylbenzene	ND	0.0050	0.00076	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chlorobenzene	ND	0.0050	0.00082	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.0050	0.00054	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
m,p-Xylene	ND	0.0050	0.0014	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
o-Xylene	ND	0.0050	0.00048	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Styrene	ND	0.0050	0.00054	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromoform	ND	0.0050	0.00064	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Isopropylbenzene	ND	0.0050	0.00056	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
trans-1,4-Dichloro-2-butene	ND	0.0050	0.0012	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromobenzene	ND	0.0050	0.00048	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
n-Propylbenzene	ND	0.0050	0.00068	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.0050	0.00074	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.0050	0.00075	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Chlorotoluene	ND	0.0050	0.00058	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.0050	0.0011	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
4-Chlorotoluene	ND	0.0050	0.00061	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
tert-Butylbenzene	ND	0.0050	0.00065	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.0050	0.00066	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
sec-Butylbenzene	ND	0.0050	0.00062	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
p-Isopropyltoluene	ND	0.0050	0.00064	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,3-Dichlorobenzene	ND	0.0050	0.00074	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,4-Dichlorobenzene	ND	0.0050	0.00094	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
n-Butylbenzene	ND	0.0050	0.00077	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dichlorobenzene	ND	0.0050	0.00046	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.025	0.0019	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.0050	0.00068	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Hexachlorobutadiene	ND	0.0050	0.00082	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Naphthalene	ND	0.0050	0.0015	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.0050	0.00088	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Xylenes	ND	0.0050		mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Surrogate: Dibromofluoromethane	103 %	70-130				U7D0503	04/05/17	04/05/17	EPA 8260B	

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-5
DD04004-05 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics

D1

Surrogate: Toluene-d8	98.0 %	70-130			U7D0503	04/05/17	04/05/17	EPA 8260B
Surrogate: 4-Bromofluorobenzene	93.4 %	70-130			U7D0503	04/05/17	04/05/17	EPA 8260B



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Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-6
DD04004-06 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Inorganics

Cyanide (total)	3.3	1.0	0.45	mg/kg dry	1	U7D1701	04/17/17	04/17/17	EPA 9014	
% Solids	72	1.0	0.10	%	1	U7D1708	04/17/17	04/18/17	% Calculation	
Total Solids	72	0.10		%	1	U7D1708	04/17/17	04/18/17	SM 2540G	

Metals - Totals

Antimony	1.7	2.0	0.10	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	J
Arsenic	5.3	2.0	0.22	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Barium	320	2.0	0.13	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Beryllium	0.15	0.40	0.032	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	J
Cadmium	1.6	0.40	0.023	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Chromium	31	2.0	0.078	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Cobalt	2.7	0.80	0.022	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Copper	300	2.0	0.069	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Lead	32	2.0	0.16	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Mercury	1.6	0.073	0.017	mg/kg dry	1	U7D1401	04/14/17	04/14/17	EPA 7471A	
Molybdenum	16	2.0	0.13	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Nickel	19	2.0	0.091	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Selenium	8.6	5.0	0.36	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Silver	7.4	2.0	0.10	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Thallium	2.4	5.0	0.46	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	J
Vanadium	84	2.5	0.38	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Zinc	1300	2.0	0.060	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	

Metals - STLC Citrate Buffer

Antimony	0.14	0.40	0.026	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Arsenic	0.15	0.20	0.036	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Barium	6.1	0.40	0.0040	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Beryllium	0.0045	0.020	0.00020	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Cadmium	ND	0.020	0.0016	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Chromium	0.70	0.10	0.0070	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Cobalt	0.0080	0.040	0.0052	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Copper	0.048	0.10	0.0064	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Lead	0.38	0.50	0.016	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Mercury	1.4	1.0	0.31	µg/L	1	U7D1804	04/18/17	04/18/17	EPA 7470A	D2
Molybdenum	0.26	0.10	0.0068	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Nickel	0.65	0.10	0.034	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Selenium	0.39	0.40	0.060	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Silver	0.027	0.10	0.0060	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J

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2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-6
DD04004-06 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Metals - STLC Citrate Buffer

Thallium	0.086	0.40	0.0040	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Vanadium	2.5	0.20	0.014	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Zinc	49	0.40	0.0080	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	

Semi-Volatile Organics

4,4'-DDD	ND	0.025	0.0030	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
4,4'-DDE	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
4,4'-DDT	ND	0.025	0.0090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Aldrin	ND	0.025	0.015	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
alpha-BHC	ND	0.025	0.015	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
alpha-Chlordane	0.0093	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	J
beta-BHC	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Chlordane (tech)	ND	0.090	0.090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
delta-BHC	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Dieleadrin	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endosulfan I	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Trifluralin	ND	0.025	0.0090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endosulfan II	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endosulfan sulfate	ND	0.025	0.0030	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endrin	ND	0.025	0.0090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endrin aldehyde	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endrin ketone	ND	0.025	0.0030	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
gamma-BHC (Lindane)	ND	0.025	0.018	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
gamma-Chlordane	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Heptachlor	ND	0.025	0.024	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Heptachlor epoxide	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Methoxychlor	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Toxaphene	ND	0.050	0.015	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
<i>Surrogate: Decachlorobiphenyl (DCB)</i>	<i>151 %</i>	<i>11.4-122</i>				<i>U7D0507</i>	<i>04/05/17</i>	<i>04/05/17</i>	<i>EPA 8081A</i>	<i>S02</i>
<i>Surrogate: Tetrachloro-meta-xylene (TMX)</i>	<i>89.7 %</i>	<i>8.5-170</i>				<i>U7D0507</i>	<i>04/05/17</i>	<i>04/05/17</i>	<i>EPA 8081A</i>	
PCB-1016	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1221	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1232	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1242	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1248	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1254	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1260	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-6
DD04004-06 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semi-Volatile Organics

Surrogate: Decachlorobiphenyl (DCB)	94.0 %	17.2-156				U7D0508	04/05/17	04/07/17	EPA 8082	
Surrogate: Tetrachloro-meta-xylene (TMX)	65.0 %	20.6-119				U7D0508	04/05/17	04/07/17	EPA 8082	
N-Nitrosodimethylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
N-Nitrosomethylethylamine	ND	2.5	0.60	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Methyl Methanesulfonate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
N-Nitrosodiethylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Ethyl Methanesulfonate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Phenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Bis(2-chloroethyl)ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Chlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
1,4-Dichlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzyl alcohol	ND	2.5	0.52	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Bis(2-chloroisopropyl)ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Methylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Acetophenone	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
N-Nitrosopyrrolidine	ND	2.5	0.64	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Hexachloroethane	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
o-Toluidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Methylphenol	ND	2.5	0.65	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
N-Nitrosodi-n-propylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Nitrobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
N-Nitrosopiperidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Isophorone	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Nitrophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,4-Dimethylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Bis(2-chloroethoxy)methane	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,4-Dichlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
1,2,4-Trichlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzoic acid	ND	2.5	0.40	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Safrole	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,6-Dichlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
N-Nitrosodi-n-butylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Chloro-3-methylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Methylnaphthalene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Hexachlorocyclopentadiene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,4,5-Trichlorophenol	ND	2.5	0.56	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,4,6-Trichlorophenol	ND	2.5	0.87	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-6
DD04004-06 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semi-Volatile Organics

2-Chloronaphthalene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Nitroaniline	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
1,4-Naphthoquinone	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Dimethyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Acenaphthylene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
1,3-Dinitrobenzene	ND	2.5	0.64	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,6-Dinitrotoluene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
3-Nitroaniline	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
5-Nitro-o-toluidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
1,2-Diphenylhydrazine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Acenaphthene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,4-Dinitrophenol	ND	2.5	0.70	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Pentachlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Nitrophenol	ND	2.5	0.86	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
1-Naphthylamine	ND	2.5	0.42	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,4-Dinitrotoluene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Naphthylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Fluorene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Diethyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Chlorophenyl phenyl ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Methapyrilene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Nitroaniline	ND	2.5	0.44	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Aminobiphenyl	ND	2.5	0.82	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Diphenylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
N-Nitrosodiphenylamine	ND	2.5	0.79	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4,6-Dinitro-2-methylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Phenacetin	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Pentachloronitrobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
4-Bromophenyl phenyl ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Hexachlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Pentachlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Phenanthrene	0.38	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	J
Anthracene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Di-n-butyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Fluoranthene	0.48	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	J

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Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-6
DD04004-06 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semi-Volatile Organics

Pyrene	1.5	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	J
p-Dimethylaminoazobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
3,3'-Dimethylbenzidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Butyl benzyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Acetylaminofluorene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo (a) anthracene	0.41	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	J
Chrysene	0.42	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	J
Bis(2-ethylhexyl) phthalate	22	5.0	0.75	mg/kg dry	10	U7D0603	04/06/17	04/11/17	EPA 8270C	
Di-n-octyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo (b) fluoranthene	0.73	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	J
Benzo (k) fluoranthene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo (a) pyrene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
3,3'-Dichlorobenzidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
3-Methylcholanthrene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Indeno(1,2,3-cd)pyrene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Dibenzo(a,h)anthracene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo(ghi)perylene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
O,O,O-Triethyl phosphorothioate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Pronamide	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
<i>Surrogate: 2-Fluorophenol</i>	<i>31.3 %</i>	<i>22-92</i>				<i>U7D0603</i>	<i>04/06/17</i>	<i>04/11/17</i>	<i>EPA 8270C</i>	
<i>Surrogate: Phenol-d5</i>	<i>44.8 %</i>	<i>10-94</i>				<i>U7D0603</i>	<i>04/06/17</i>	<i>04/11/17</i>	<i>EPA 8270C</i>	
<i>Surrogate: Nitrobenzene-d5</i>	<i>49.4 %</i>	<i>41-110</i>				<i>U7D0603</i>	<i>04/06/17</i>	<i>04/11/17</i>	<i>EPA 8270C</i>	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>73.8 %</i>	<i>40-92</i>				<i>U7D0603</i>	<i>04/06/17</i>	<i>04/11/17</i>	<i>EPA 8270C</i>	
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>47.9 %</i>	<i>49-138</i>				<i>U7D0603</i>	<i>04/06/17</i>	<i>04/11/17</i>	<i>EPA 8270C</i>	<i>S02</i>
<i>Surrogate: d14-Terphenyl</i>	<i>121 %</i>	<i>44-131</i>				<i>U7D0603</i>	<i>04/06/17</i>	<i>04/11/17</i>	<i>EPA 8270C</i>	

Volatile Organics

										D1
Dichlorodifluoromethane (CFC-12)	ND	0.0050	0.00047	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chloromethane	ND	0.0050	0.00066	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Vinyl chloride	ND	0.0050	0.00076	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromomethane	ND	0.0050	0.0035	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chloroethane	ND	0.0050	0.0010	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Trichlorofluoromethane (CFC-11)	ND	0.0050	0.00076	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethanol	0.62	0.25	0.054	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	0.00085	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Trichlorotrifluoroethane (CFC-113)	ND	0.0050	0.00085	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	

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Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-6
DD04004-06 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics											D1
1,1-Dichloroethene	ND	0.0050	0.00092	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Carbon disulfide	0.012	0.0050	0.00066	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Iodomethane	ND	0.0050	0.0018	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Acrolein	ND	0.25	0.020	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Methylene chloride	ND	0.010	0.0015	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Acetone	0.30	0.10	0.0034	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
trans-1,2-Dichloroethene	ND	0.0050	0.00081	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
tert-Butyl alcohol (TBA)	ND	0.10	0.011	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Methyl tert-Butyl Ether (MTBE)	ND	0.0050	0.0018	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Di-isopropyl ether (DIPE)	ND	0.0050	0.00074	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Chloroprene	ND	0.0050	0.00081	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
1,1-Dichloroethane	ND	0.0050	0.00040	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Acrylonitrile	ND	0.050	0.014	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Ethyl tert-Butyl Ether (ETBE)	ND	0.0050	0.00058	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Vinyl acetate	ND	0.0050	0.0022	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
cis-1,2-Dichloroethene	ND	0.0050	0.00036	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
2,2-Dichloropropane	ND	0.0050	0.0010	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Bromochloromethane	ND	0.0050	0.0012	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Chloroform	ND	0.0050	0.00056	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Carbon tetrachloride	ND	0.0050	0.00071	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
2-Butanone (MEK)	0.10	0.0050	0.0015	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
1,1,1-Trichloroethane (TCA)	ND	0.0050	0.00060	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
1,1-Dichloropropene	ND	0.0050	0.00080	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Tert-Amyl Methyl Ether (TAME)	ND	0.0050	0.00090	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Benzene	ND	0.0050	0.00094	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
1,2-Dichloroethane (1,2-DCA)	ND	0.0050	0.00070	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Trichloroethene (TCE)	0.0073	0.0050	0.00050	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Dibromomethane	ND	0.0050	0.00082	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
1,2-Dichloropropane	ND	0.0050	0.00072	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Bromodichloromethane	ND	0.0050	0.00064	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Methyl Methacrylate	ND	0.0050	0.0016	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
2-Chloroethylvinyl ether	ND	0.10	0.0020	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
cis-1,3-Dichloropropene	ND	0.0050	0.00044	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Toluene	ND	0.0050	0.00078	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
4-Methyl-2-pentanone (MIBK)	ND	0.0050	0.0016	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
trans-1,3-Dichloropropene	ND	0.0050	0.00056	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		
Tetrachloroethene (PCE)	ND	0.0050	0.00070	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B		

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-6
DD04004-06 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
1,1,2-Trichloroethane	ND	0.0050	0.00083	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethyl methacrylate	ND	0.0050	0.0038	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Dibromochloromethane	ND	0.0050	0.00055	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,3-Dichloropropane	ND	0.0050	0.00060	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.0050	0.00065	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Hexanone	ND	0.0050	0.0014	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethylbenzene	ND	0.0050	0.00076	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chlorobenzene	ND	0.0050	0.00082	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.0050	0.00054	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
m,p-Xylene	ND	0.0050	0.0014	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
o-Xylene	ND	0.0050	0.00048	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Styrene	ND	0.0050	0.00054	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromoform	ND	0.0050	0.00064	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Isopropylbenzene	ND	0.0050	0.00056	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
trans-1,4-Dichloro-2-butene	ND	0.0050	0.0012	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromobenzene	ND	0.0050	0.00048	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
n-Propylbenzene	ND	0.0050	0.00068	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.0050	0.00074	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.0050	0.00075	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Chlorotoluene	ND	0.0050	0.00058	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.0050	0.0011	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
4-Chlorotoluene	ND	0.0050	0.00061	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
tert-Butylbenzene	ND	0.0050	0.00065	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.0050	0.00066	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
sec-Butylbenzene	ND	0.0050	0.00062	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
p-Isopropyltoluene	ND	0.0050	0.00064	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,3-Dichlorobenzene	ND	0.0050	0.00074	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,4-Dichlorobenzene	ND	0.0050	0.00094	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
n-Butylbenzene	ND	0.0050	0.00077	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dichlorobenzene	ND	0.0050	0.00046	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.025	0.0019	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.0050	0.00068	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Hexachlorobutadiene	ND	0.0050	0.00082	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Naphthalene	ND	0.0050	0.0015	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.0050	0.00088	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Xylenes	ND	0.0050		mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Surrogate: Dibromofluoromethane	105 %	70-130				U7D0503	04/05/17	04/05/17	EPA 8260B	

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-6
DD04004-06 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics

D1

Surrogate: Toluene-d8	99.2 %	70-130			U7D0503	04/05/17	04/05/17	EPA 8260B
Surrogate: 4-Bromofluorobenzene	90.2 %	70-130			U7D0503	04/05/17	04/05/17	EPA 8260B



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Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-7
DD04004-07 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Inorganics

Cyanide (total)	5.5	1.0	0.45	mg/kg dry	1	U7D1701	04/17/17	04/17/17	EPA 9014	
% Solids	72	1.0	0.10	%	1	U7D1708	04/17/17	04/18/17	% Calculation	
Total Solids	72	0.10		%	1	U7D1708	04/17/17	04/18/17	SM 2540G	

Metals - Totals

Antimony	0.71	2.0	0.10	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	J
Arsenic	6.7	2.0	0.22	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Barium	300	2.0	0.13	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Beryllium	0.14	0.40	0.032	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	J
Cadmium	1.5	0.40	0.023	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Chromium	28	2.0	0.078	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Cobalt	2.6	0.80	0.022	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Copper	290	2.0	0.069	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Lead	30	2.0	0.16	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Mercury	0.88	0.073	0.017	mg/kg dry	1	U7D1401	04/14/17	04/14/17	EPA 7471A	
Molybdenum	17	2.0	0.13	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Nickel	18	2.0	0.091	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Selenium	7.0	5.0	0.36	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Silver	6.8	2.0	0.10	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Thallium	2.1	5.0	0.46	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	J
Vanadium	75	2.5	0.38	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	
Zinc	1200	2.0	0.060	mg/kg dry	1	U7D1403	04/15/17	04/17/17	EPA 6010B	

Metals - STLC Citrate Buffer

Antimony	0.20	0.40	0.026	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Arsenic	0.27	0.20	0.036	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Barium	5.7	0.40	0.0040	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Beryllium	0.0032	0.020	0.00020	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Cadmium	0.011	0.020	0.0016	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Chromium	0.67	0.10	0.0070	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Cobalt	0.025	0.040	0.0052	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Copper	0.067	0.10	0.0064	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Lead	0.38	0.50	0.016	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Mercury	1.3	1.0	0.31	µg/L	1	U7D1804	04/18/17	04/18/17	EPA 7470A	D2
Molybdenum	0.27	0.10	0.0068	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Nickel	0.63	0.10	0.034	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Selenium	0.21	0.40	0.060	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Silver	0.028	0.10	0.0060	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-7
DD04004-07 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Metals - STLC Citrate Buffer

Thallium	0.34	0.40	0.0040	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	J
Vanadium	2.2	0.20	0.014	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	
Zinc	52	0.40	0.0080	mg/L	1	U7D1404	04/17/17	04/18/17	EPA 6010B	

Semi-Volatile Organics

4,4'-DDD	ND	0.025	0.0030	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
4,4'-DDE	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
4,4'-DDT	ND	0.025	0.0090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Aldrin	ND	0.025	0.015	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
alpha-BHC	ND	0.025	0.015	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
alpha-Chlordane	0.017	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	J
beta-BHC	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Chlordane (tech)	ND	0.090	0.090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
delta-BHC	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Dieleadrin	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endosulfan I	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Trifluralin	ND	0.025	0.0090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endosulfan II	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endosulfan sulfate	ND	0.025	0.0030	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endrin	ND	0.025	0.0090	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endrin aldehyde	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Endrin ketone	ND	0.025	0.0030	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
gamma-BHC (Lindane)	ND	0.025	0.018	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
gamma-Chlordane	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Heptachlor	ND	0.025	0.024	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Heptachlor epoxide	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Methoxychlor	ND	0.025	0.0060	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
Toxaphene	ND	0.050	0.015	mg/kg dry	1	U7D0507	04/05/17	04/05/17	EPA 8081A	
<i>Surrogate: Decachlorobiphenyl (DCB)</i>	<i>199 %</i>	<i>11.4-122</i>				<i>U7D0507</i>	<i>04/05/17</i>	<i>04/05/17</i>	<i>EPA 8081A</i>	<i>S02</i>
<i>Surrogate: Tetrachloro-meta-xylene (TMX)</i>	<i>94.9 %</i>	<i>8.5-170</i>				<i>U7D0507</i>	<i>04/05/17</i>	<i>04/05/17</i>	<i>EPA 8081A</i>	
PCB-1016	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1221	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1232	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1242	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1248	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1254	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	
PCB-1260	ND	0.050	0.033	mg/kg dry	1	U7D0508	04/05/17	04/07/17	EPA 8082	

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Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-7
DD04004-07 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semi-Volatile Organics

Surrogate: Decachlorobiphenyl (DCB)	92.0 %	17.2-156			U7D0508	04/05/17	04/07/17	EPA 8082	
Surrogate: Tetrachloro-meta-xylene (TMX)	69.0 %	20.6-119			U7D0508	04/05/17	04/07/17	EPA 8082	
N-Nitrosodimethylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
N-Nitrosomethylethylamine	ND	2.5	0.60	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Methyl Methanesulfonate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
N-Nitrosodiethylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Ethyl Methanesulfonate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Phenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Bis(2-chloroethyl)ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2-Chlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
1,4-Dichlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Benzyl alcohol	ND	2.5	0.52	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Bis(2-chloroisopropyl)ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2-Methylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Acetophenone	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
N-Nitrosopyrrolidine	ND	2.5	0.64	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Hexachloroethane	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
o-Toluidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
4-Methylphenol	ND	2.5	0.65	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
N-Nitrosodi-n-propylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Nitrobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
N-Nitrosopiperidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Isophorone	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2-Nitrophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2,4-Dimethylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Bis(2-chloroethoxy)methane	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2,4-Dichlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
1,2,4-Trichlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Benzoic acid	ND	2.5	0.40	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Safrole	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2,6-Dichlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
N-Nitrosodi-n-butylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
4-Chloro-3-methylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2-Methylnaphthalene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Hexachlorocyclopentadiene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2,4,5-Trichlorophenol	ND	2.5	0.56	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2,4,6-Trichlorophenol	ND	2.5	0.87	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-7
DD04004-07 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semi-Volatile Organics

2-Chloronaphthalene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2-Nitroaniline	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
1,4-Naphthoquinone	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Dimethyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Acenaphthylene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
1,3-Dinitrobenzene	ND	2.5	0.64	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2,6-Dinitrotoluene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
3-Nitroaniline	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
5-Nitro-o-toluidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
1,2-Diphenylhydrazine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Acenaphthene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2,4-Dinitrophenol	ND	2.5	0.70	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Pentachlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
4-Nitrophenol	ND	2.5	0.86	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
1-Naphthylamine	ND	2.5	0.42	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2,4-Dinitrotoluene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2-Naphthylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
2,3,4,6-Tetrachlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Fluorene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Diethyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
4-Chlorophenyl phenyl ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Methapyrilene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
4-Nitroaniline	ND	2.5	0.44	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
4-Aminobiphenyl	ND	2.5	0.82	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Diphenylamine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Benzidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
N-Nitrosodiphenylamine	ND	2.5	0.79	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
4,6-Dinitro-2-methylphenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Phenacetin	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Pentachloronitrobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
4-Bromophenyl phenyl ether	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Hexachlorobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Pentachlorophenol	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Phenanthrene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Anthracene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Di-n-butyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C
Fluoranthene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-7
DD04004-07 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semi-Volatile Organics

Pyrene	0.62	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	J
p-Dimethylaminoazobenzene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
3,3'-Dimethylbenzidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Butyl benzyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
2-Acetylaminofluorene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo (a) anthracene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Chrysene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Bis(2-ethylhexyl) phthalate	13	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Di-n-octyl phthalate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo (b) fluoranthene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo (k) fluoranthene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo (a) pyrene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
3,3'-Dichlorobenzidine	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
3-Methylcholanthrene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Indeno(1,2,3-cd)pyrene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Dibenzo(a,h)anthracene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Benzo(ghi)perylene	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
O,O,O-Triethyl phosphorothioate	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Pronamide	ND	2.5	0.38	mg/kg dry	5	U7D0603	04/06/17	04/11/17	EPA 8270C	
Surrogate: 2-Fluorophenol	12.4 %	22-92				U7D0603	04/06/17	04/11/17	EPA 8270C	S02
Surrogate: Phenol-d5	20.9 %	10-94				U7D0603	04/06/17	04/11/17	EPA 8270C	
Surrogate: Nitrobenzene-d5	24.6 %	41-110				U7D0603	04/06/17	04/11/17	EPA 8270C	S02
Surrogate: 2-Fluorobiphenyl	28.4 %	40-92				U7D0603	04/06/17	04/11/17	EPA 8270C	S02
Surrogate: 2,4,6-Tribromophenol	24.9 %	49-138				U7D0603	04/06/17	04/11/17	EPA 8270C	S02
Surrogate: d14-Terphenyl	53.6 %	44-131				U7D0603	04/06/17	04/11/17	EPA 8270C	

Volatile Organics

Dichlorodifluoromethane (CFC-12)	ND	0.0050	0.00047	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	D1
Chloromethane	ND	0.0050	0.00066	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Vinyl chloride	ND	0.0050	0.00076	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromomethane	ND	0.0050	0.0035	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chloroethane	ND	0.0050	0.0010	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Trichlorofluoromethane (CFC-11)	ND	0.0050	0.00076	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethanol	ND	0.25	0.054	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	0.00085	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Trichlorotrifluoroethane (CFC-113)	ND	0.0050	0.00085	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-7
DD04004-07 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics										D1
1,1-Dichloroethene	ND	0.0050	0.00092	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Carbon disulfide	0.0092	0.0050	0.00066	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Iodomethane	ND	0.0050	0.0018	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Acrolein	ND	0.25	0.020	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Methylene chloride	ND	0.010	0.0015	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Acetone	0.044	0.10	0.0034	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	J
trans-1,2-Dichloroethene	ND	0.0050	0.00081	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
tert-Butyl alcohol (TBA)	ND	0.10	0.011	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	0.0050	0.0018	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Di-isopropyl ether (DIPE)	ND	0.0050	0.00074	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chloroprene	ND	0.0050	0.00081	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1-Dichloroethane	ND	0.0050	0.00040	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Acrylonitrile	ND	0.050	0.014	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethyl tert-Butyl Ether (ETBE)	ND	0.0050	0.00058	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Vinyl acetate	ND	0.0050	0.0022	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.0050	0.00036	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2,2-Dichloropropane	ND	0.0050	0.0010	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromochloromethane	ND	0.0050	0.0012	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chloroform	ND	0.0050	0.00056	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Carbon tetrachloride	ND	0.0050	0.00071	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Butanone (MEK)	ND	0.0050	0.0015	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,1-Trichloroethane (TCA)	ND	0.0050	0.00060	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1-Dichloropropene	ND	0.0050	0.00080	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Tert-Amyl Methyl Ether (TAME)	ND	0.0050	0.00090	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Benzene	ND	0.0050	0.00094	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dichloroethane (1,2-DCA)	ND	0.0050	0.00070	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Trichloroethene (TCE)	0.0079	0.0050	0.00050	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Dibromomethane	ND	0.0050	0.00082	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dichloropropane	ND	0.0050	0.00072	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromodichloromethane	ND	0.0050	0.00064	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Methyl Methacrylate	ND	0.0050	0.0016	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Chloroethylvinyl ether	ND	0.10	0.0020	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.0050	0.00044	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Toluene	ND	0.0050	0.00078	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	0.0050	0.0016	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.0050	0.00056	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Tetrachloroethene (PCE)	ND	0.0050	0.00070	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-7
DD04004-07 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics										
1,1,2-Trichloroethane	ND	0.0050	0.00083	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethyl methacrylate	ND	0.0050	0.0038	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Dibromochloromethane	ND	0.0050	0.00055	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,3-Dichloropropane	ND	0.0050	0.00060	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.0050	0.00065	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Hexanone	ND	0.0050	0.0014	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Ethylbenzene	ND	0.0050	0.00076	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Chlorobenzene	ND	0.0050	0.00082	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.0050	0.00054	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
m,p-Xylene	ND	0.0050	0.0014	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
o-Xylene	ND	0.0050	0.00048	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Styrene	ND	0.0050	0.00054	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromoform	ND	0.0050	0.00064	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Isopropylbenzene	ND	0.0050	0.00056	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
trans-1,4-Dichloro-2-butene	ND	0.0050	0.0012	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Bromobenzene	ND	0.0050	0.00048	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
n-Propylbenzene	ND	0.0050	0.00068	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.0050	0.00074	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.0050	0.00075	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
2-Chlorotoluene	ND	0.0050	0.00058	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,3-Trichloropropane (123TCP)	ND	0.0050	0.0011	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
4-Chlorotoluene	ND	0.0050	0.00061	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
tert-Butylbenzene	ND	0.0050	0.00065	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.0050	0.00066	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
sec-Butylbenzene	ND	0.0050	0.00062	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
p-Isopropyltoluene	0.0077	0.0050	0.00064	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,3-Dichlorobenzene	ND	0.0050	0.00074	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,4-Dichlorobenzene	ND	0.0050	0.00094	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
n-Butylbenzene	ND	0.0050	0.00077	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dichlorobenzene	ND	0.0050	0.00046	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.025	0.0019	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.0050	0.00068	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Hexachlorobutadiene	ND	0.0050	0.00082	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Naphthalene	ND	0.0050	0.0015	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.0050	0.00088	mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Xylenes	ND	0.0050		mg/kg dry	5	U7D0503	04/05/17	04/05/17	EPA 8260B	
Surrogate: Dibromofluoromethane	101 %	70-130				U7D0503	04/05/17	04/05/17	EPA 8260B	

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

S-7
DD04004-07 (Biosolids)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics

D1

Surrogate: Toluene-d8	96.6 %	70-130				U7D0503	04/05/17	04/05/17	EPA 8260B
Surrogate: 4-Bromofluorobenzene	86.9 %	70-130				U7D0503	04/05/17	04/05/17	EPA 8260B

Notes and Definitions

- S02 Surrogate recovery was affected by the matrix.
- RPD3 The RPD is out of range for this spike and its duplicate due to a low or high bias of one of the two spikes.
- RPD2 A high RPD was observed due to the low concentration of the target analyte.
- RPD The RPD result exceeded the QC control limits. However, both percent recoveries were acceptable.
- QM The spike recovery for this QC sample is outside of established control limits due to matrix interference.
- MS4 The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater than the spike concentration.
- MS3 Recovery for this analyte was biased low; associated blank spike recoveries are within range.
- MS2 Recovery for this analyte was biased high; associated blank spike recoveries are within range.
- MS1 Recovery for this analyte was affected by matrix.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). Same as DNQ - Detected, but Not Quantified.
- D2 Sample diluted due to high concentration(s) of non-target analyte(s).
- D1 Sample diluted due to matrix effects.
- BS1 Recovery for this analyte was biased high. Results were accepted based on duplicate results.
- ND Analyte NOT DETECTED at or above the Method Detection Limit (MDL)
- NR Not Reported
- RPD Relative Percent Difference
- MDL Method Detection Limit
- Analysis of pH, filtration, and residual chlorine is to take place immediately after sampling in the field.
If the test was performed in the laboratory, the hold time was exceeded. (for aqueous matrices only)



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Reported:
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Inorganics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch U7D1701

Blank (U7D1701-BLK1)									Prepared & Analyzed: 04/17/17
Cyanide (total)	ND	1.0	mg/kg wet						
LCS (U7D1701-BS1)									Prepared & Analyzed: 04/17/17
Cyanide (total)	6.72	1.0	mg/kg wet	6.00		112	80-120		20
LCS Dup (U7D1701-BSD1)									Prepared & Analyzed: 04/17/17
Cyanide (total)	6.24	1.0	mg/kg wet	6.00		104	80-120	7.41	20
Matrix Spike (U7D1701-MS1)			Source: DD04004-01						Prepared & Analyzed: 04/17/17
Cyanide (total)	12.2	1.0	mg/kg dry	8.95	2.47	108	80-120		20
Matrix Spike Dup (U7D1701-MSD1)			Source: DD04004-01						Prepared & Analyzed: 04/17/17
Cyanide (total)	11.2	1.0	mg/kg dry	8.74	2.47	99.8	80-120	8.45	20

Batch U7D1708

Blank (U7D1708-BLK1)									Prepared: 04/17/17 Analyzed: 04/18/17
% Solids	ND	1.0	%						
Total Solids	ND	0.10	%						
Duplicate (U7D1708-DUP1)			Source: DD04004-01						Prepared: 04/17/17 Analyzed: 04/18/17
% Solids	66.5	1.0	%	67.6			1.58		20
Total Solids	66.5	0.10	%	67.6			1.58		20
Duplicate (U7D1708-DUP2)			Source: DD11034-13						Prepared: 04/17/17 Analyzed: 04/18/17
Total Solids	57.1	0.10	%	58.9			2.96		20



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Project Manager: Vern Bennett

Reported:
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Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Notes
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Batch U7D1401

Blank (U7D1401-BLK1)	Prepared & Analyzed: 04/14/17							
Mercury	ND	0.040	mg/kg wet					
LCS (U7D1401-BS1)	Prepared & Analyzed: 04/14/17							
Mercury	1.01	0.040	mg/kg wet	1.00	101	70-130	20	
LCS Dup (U7D1401-BSD1)	Prepared & Analyzed: 04/14/17							
Mercury	1.04	0.040	mg/kg wet	1.00	104	70-130	2.54	20
Matrix Spike (U7D1401-MS1)	Source: DD07009-09			Prepared & Analyzed: 04/14/17				
Mercury	0.406	0.013	mg/kg wet	0.335	0.0926	93.5	70-130	20
Matrix Spike Dup (U7D1401-MSD1)	Source: DD07009-09			Prepared & Analyzed: 04/14/17				
Mercury	0.403	0.013	mg/kg wet	0.333	0.0926	93.2	70-130	0.651

Batch U7D1403

Blank (U7D1403-BLK1)	Prepared: 04/15/17 Analyzed: 04/17/17						
Lead	ND	2.0	mg/kg wet				
Cobalt	ND	0.80	mg/kg wet				
Nickel	0.128	2.0	mg/kg wet				
Thallium	1.05	5.0	mg/kg wet				
Selenium	ND	5.0	mg/kg wet				
Antimony	0.334	2.0	mg/kg wet				
Barium	ND	2.0	mg/kg wet				
Silver	0.107	2.0	mg/kg wet				
Zinc	0.0650	2.0	mg/kg wet				
Cadmium	ND	0.40	mg/kg wet				
Chromium	ND	2.0	mg/kg wet				
Vanadium	ND	2.5	mg/kg wet				
Copper	0.0827	2.0	mg/kg wet				
Beryllium	ND	0.40	mg/kg wet				
Arsenic	0.535	2.0	mg/kg wet				
Molybdenum	0.166	2.0	mg/kg wet				
LCS (U7D1403-BS1)	Prepared: 04/15/17 Analyzed: 04/17/17						
Antimony	20.5	2.0	mg/kg wet	20.0	102	75-125	20
Copper	20.4	2.0	mg/kg wet	20.0	102	75-125	20
Chromium	19.7	2.0	mg/kg wet	20.0	98.5	75-125	20
Silver	19.9	2.0	mg/kg wet	20.0	99.3	75-125	20
Molybdenum	20.5	2.0	mg/kg wet	20.0	103	75-125	20

Moore Twining Associates, Inc.

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Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7D1403

LCS (U7D1403-BS1)							
Selenium	73.1	5.0	mg/kg wet	80.0	91.4	75-125	20
Lead	19.3	2.0	mg/kg wet	20.0	96.4	70-130	20
Cadmium	3.96	0.40	mg/kg wet	4.00	99.1	75-125	20
Barium	38.9	2.0	mg/kg wet	40.0	97.1	75-125	20
Cobalt	8.35	0.80	mg/kg wet	8.00	104	75-125	20
Zinc	19.6	2.0	mg/kg wet	20.0	98.1	75-125	20
Vanadium	39.7	2.5	mg/kg wet	40.0	99.3	75-125	20
Beryllium	3.99	0.40	mg/kg wet	4.00	99.7	75-125	20
Thallium	78.7	5.0	mg/kg wet	80.0	98.3	75-125	20
Arsenic	39.4	2.0	mg/kg wet	40.0	98.5	75-125	20
Nickel	20.3	2.0	mg/kg wet	20.0	102	75-125	20

LCS Dup (U7D1403-BSD1)							
Beryllium	4.03	0.40	mg/kg wet	4.00	101	75-125	1.13
Selenium	72.9	5.0	mg/kg wet	80.0	91.1	75-125	0.325
Silver	20.0	2.0	mg/kg wet	20.0	100	75-125	0.833
Molybdenum	20.6	2.0	mg/kg wet	20.0	103	75-125	0.521
Cadmium	3.98	0.40	mg/kg wet	4.00	99.4	75-125	0.307
Cobalt	8.37	0.80	mg/kg wet	8.00	105	75-125	0.217
Chromium	19.8	2.0	mg/kg wet	20.0	99.1	75-125	0.605
Copper	20.3	2.0	mg/kg wet	20.0	101	75-125	0.606
Barium	39.3	2.0	mg/kg wet	40.0	98.3	75-125	1.16
Lead	19.7	2.0	mg/kg wet	20.0	98.5	70-130	2.19
Nickel	20.4	2.0	mg/kg wet	20.0	102	75-125	0.215
Vanadium	39.7	2.5	mg/kg wet	40.0	99.3	75-125	0.0645
Arsenic	40.1	2.0	mg/kg wet	40.0	100	75-125	1.82
Thallium	78.6	5.0	mg/kg wet	80.0	98.3	75-125	0.0218
Antimony	20.5	2.0	mg/kg wet	20.0	102	75-125	0.0545
Zinc	19.6	2.0	mg/kg wet	20.0	98.0	75-125	0.0895

Matrix Spike (U7D1403-MS1)							
Molybdenum	15.5	2.0	mg/kg wet	19.8	ND	78.3	75-125
Barium	128	2.0	mg/kg wet	39.6	86.1	106	75-125
Nickel	68.0	2.0	mg/kg wet	19.8	48.0	101	75-125
Vanadium	92.5	2.5	mg/kg wet	39.6	51.5	104	75-125
Thallium	46.4	5.0	mg/kg wet	79.3	1.54	56.6	75-125
Arsenic	44.8	2.0	mg/kg wet	39.6	7.41	94.4	75-125

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Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch U7D1403

Matrix Spike (U7D1403-MS1)	Source: DD10008-01			Prepared: 04/15/17 Analyzed: 04/17/17					
Zinc	68.5	2.0	mg/kg wet	19.8	46.5	111	75-125	20	
Cadmium	3.79	0.40	mg/kg wet	3.96	0.112	92.9	75-125	20	
Lead	25.9	2.0	mg/kg wet	19.8	7.50	92.7	70-130	20	
Chromium	70.9	2.0	mg/kg wet	19.8	45.6	128	75-125	20	MS2
Silver	19.5	2.0	mg/kg wet	19.8	ND	98.6	75-125	20	
Antimony	3.88	2.0	mg/kg wet	19.8	ND	19.6	75-125	20	MS3
Selenium	74.4	5.0	mg/kg wet	79.3	ND	93.8	75-125	20	
Copper	43.5	2.0	mg/kg wet	19.8	22.9	104	75-125	20	
Cobalt	18.2	0.80	mg/kg wet	7.93	10.4	98.3	75-125	20	
Beryllium	4.14	0.40	mg/kg wet	3.96	0.362	95.4	75-125	20	

Matrix Spike (U7D1403-MS2)	Source: DD11002-01			Prepared: 04/15/17 Analyzed: 04/17/17					
Vanadium	47.2	2.5	mg/kg wet	40.2	5.54	104	75-125	20	
Silver	20.8	2.0	mg/kg wet	20.1	0.448	101	75-125	20	
Selenium	77.0	5.0	mg/kg wet	80.4	1.20	94.3	75-125	20	
Zinc	120	2.0	mg/kg wet	20.1	99.9	100	75-125	20	
Chromium	24.0	2.0	mg/kg wet	20.1	3.60	101	75-125	20	
Antimony	16.6	2.0	mg/kg wet	20.1	0.452	80.4	75-125	20	
Nickel	24.6	2.0	mg/kg wet	20.1	3.48	105	75-125	20	
Molybdenum	20.9	2.0	mg/kg wet	20.1	1.18	97.9	75-125	20	
Thallium	48.3	5.0	mg/kg wet	80.4	0.842	59.1	75-125	20	MS3
Beryllium	4.00	0.40	mg/kg wet	4.02	ND	99.4	75-125	20	
Arsenic	39.7	2.0	mg/kg wet	40.2	0.639	97.1	75-125	20	
Cobalt	8.44	0.80	mg/kg wet	8.04	0.330	101	75-125	20	
Copper	57.3	2.0	mg/kg wet	20.1	34.1	115	75-125	20	
Barium	88.4	2.0	mg/kg wet	40.2	47.0	103	75-125	20	
Cadmium	4.59	0.40	mg/kg wet	4.02	0.469	103	75-125	20	
Lead	21.6	2.0	mg/kg wet	20.1	1.13	102	70-130	20	

Matrix Spike Dup (U7D1403-MSD1)	Source: DD10008-01			Prepared: 04/15/17 Analyzed: 04/17/17					
Antimony	4.56	2.0	mg/kg wet	20.0	ND	22.9	75-125	16.3	20
Arsenic	44.0	2.0	mg/kg wet	39.9	7.41	91.6	75-125	1.96	20
Cadmium	3.85	0.40	mg/kg wet	3.99	0.112	93.7	75-125	1.58	20
Cobalt	16.9	0.80	mg/kg wet	7.98	10.4	81.8	75-125	7.20	20
Silver	20.0	2.0	mg/kg wet	20.0	ND	100	75-125	2.36	20
Vanadium	87.9	2.5	mg/kg wet	39.9	51.5	91.3	75-125	5.13	20
Molybdenum	16.1	2.0	mg/kg wet	20.0	ND	80.5	75-125	3.41	20

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Project: Visalia Water Conservation Plant
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Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7D1403

Matrix Spike Dup (U7D1403-MSD1)	Source: DD10008-01			Prepared: 04/15/17 Analyzed: 04/17/17						
Nickel	59.9	2.0	mg/kg wet	20.0	48.0	59.8	75-125	12.6	20	MS3
Selenium	72.5	5.0	mg/kg wet	79.8	ND	90.8	75-125	2.57	20	
Chromium	64.6	2.0	mg/kg wet	20.0	45.6	95.3	75-125	9.38	20	
Lead	25.0	2.0	mg/kg wet	20.0	7.50	87.8	70-130	3.29	20	
Barium	121	2.0	mg/kg wet	39.9	86.1	87.8	75-125	5.55	20	
Beryllium	4.22	0.40	mg/kg wet	3.99	0.362	96.6	75-125	1.80	20	
Thallium	44.7	5.0	mg/kg wet	79.8	1.54	54.1	75-125	3.65	20	MS3
Zinc	61.5	2.0	mg/kg wet	20.0	46.5	75.2	75-125	10.7	20	
Copper	41.3	2.0	mg/kg wet	20.0	22.9	92.5	75-125	5.06	20	

Matrix Spike Dup (U7D1403-MSD2)	Source: DD11002-01			Prepared: 04/15/17 Analyzed: 04/17/17						
Barium	87.9	2.0	mg/kg wet	39.8	47.0	103	75-125	0.562	20	
Nickel	24.3	2.0	mg/kg wet	19.9	3.48	105	75-125	0.848	20	
Beryllium	3.95	0.40	mg/kg wet	3.98	ND	99.1	75-125	1.30	20	
Molybdenum	20.9	2.0	mg/kg wet	19.9	1.18	99.0	75-125	0.180	20	
Cobalt	8.46	0.80	mg/kg wet	7.96	0.330	102	75-125	0.190	20	
Selenium	74.4	5.0	mg/kg wet	79.6	1.20	91.9	75-125	3.52	20	
Chromium	23.6	2.0	mg/kg wet	19.9	3.60	101	75-125	1.56	20	
Lead	20.7	2.0	mg/kg wet	19.9	1.13	98.1	70-130	4.34	20	
Cadmium	4.56	0.40	mg/kg wet	3.98	0.469	103	75-125	0.671	20	
Thallium	48.2	5.0	mg/kg wet	79.6	0.842	59.4	75-125	0.351	20	MS3
Antimony	16.8	2.0	mg/kg wet	19.9	0.452	81.9	75-125	0.841	20	
Vanadium	47.1	2.5	mg/kg wet	39.8	5.54	104	75-125	0.211	20	
Arsenic	38.1	2.0	mg/kg wet	39.8	0.639	94.2	75-125	3.97	20	
Copper	57.5	2.0	mg/kg wet	19.9	34.1	117	75-125	0.340	20	
Silver	20.5	2.0	mg/kg wet	19.9	0.448	101	75-125	1.33	20	
Zinc	123	2.0	mg/kg wet	19.9	99.9	114	75-125	2.11	20	



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MTA Environmental Division
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Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

Metals - STLC Citrate Buffer - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch U7D1404										

Blank (U7D1404-BLK1)

Prepared & Analyzed: 04/17/17

Cobalt	ND	0.040	mg/L							
Thallium	ND	0.40	mg/L							
Vanadium	ND	0.20	mg/L							
Silver	0.0186	0.10	mg/L							J
Beryllium	0.00226	0.020	mg/L							J
Molybdenum	0.00926	0.10	mg/L							J
Nickel	0.0710	0.10	mg/L							J
Cadmium	ND	0.020	mg/L							
Arsenic	ND	0.20	mg/L							
Lead	0.0624	0.50	mg/L							J
Antimony	0.263	0.40	mg/L							J
Selenium	0.0818	0.40	mg/L							J
Chromium	0.00966	0.10	mg/L							J
Zinc	0.313	0.40	mg/L							J
Copper	0.0296	0.10	mg/L							J
Barium	0.391	0.40	mg/L							J

LCS (U7D1404-BS1)

Prepared & Analyzed: 04/17/17

Chromium	2.03	0.10	mg/L	2.00	102	75-125	20	
Thallium	9.12	0.40	mg/L	8.00	114	75-125	20	
Molybdenum	2.15	0.10	mg/L	2.00	107	75-125	20	
Cobalt	0.827	0.040	mg/L	0.800	103	75-125	20	
Copper	2.22	0.10	mg/L	2.00	111	75-125	20	
Silver	2.10	0.10	mg/L	2.00	105	75-125	20	
Lead	1.99	0.50	mg/L	2.00	99.3	75-125	20	
Cadmium	0.408	0.020	mg/L	0.400	102	75-125	20	
Antimony	2.25	0.40	mg/L	2.00	113	75-125	20	
Zinc	2.52	0.40	mg/L	2.00	126	75-125	20	BS1
Nickel	2.05	0.10	mg/L	2.00	103	75-125	20	
Vanadium	4.18	0.20	mg/L	4.00	105	75-125	20	
Arsenic	3.96	0.20	mg/L	4.00	99.1	75-125	20	
Selenium	8.71	0.40	mg/L	8.00	109	75-125	20	
Beryllium	0.409	0.020	mg/L	0.400	102	75-125	20	
Barium	4.48	0.40	mg/L	4.00	112	75-125	20	

LCS Dup (U7D1404-BSD1)

Prepared & Analyzed: 04/17/17

Cadmium	0.407	0.020	mg/L	0.400	102	75-125	0.265	20
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Juliane Adams, Director of Analytical Chemistry

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Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

Metals - STLC Citrate Buffer - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7D1404

LCS Dup (U7D1404-BSD1)		Prepared & Analyzed: 04/17/17							
Silver	2.07	0.10	mg/L	2.00	104	75-125	1.30	20	
Selenium	8.50	0.40	mg/L	8.00	106	75-125	2.47	20	
Lead	1.96	0.50	mg/L	2.00	98.1	75-125	1.20	20	
Cobalt	0.824	0.040	mg/L	0.800	103	75-125	0.404	20	
Copper	2.20	0.10	mg/L	2.00	110	75-125	0.788	20	
Vanadium	4.14	0.20	mg/L	4.00	104	75-125	0.919	20	
Chromium	2.03	0.10	mg/L	2.00	101	75-125	0.130	20	
Beryllium	0.402	0.020	mg/L	0.400	100	75-125	1.81	20	
Thallium	8.88	0.40	mg/L	8.00	111	75-125	2.66	20	
Zinc	2.46	0.40	mg/L	2.00	123	75-125	2.40	20	
Arsenic	3.87	0.20	mg/L	4.00	96.7	75-125	2.41	20	
Nickel	2.02	0.10	mg/L	2.00	101	75-125	1.54	20	
Molybdenum	2.11	0.10	mg/L	2.00	106	75-125	1.68	20	
Barium	4.40	0.40	mg/L	4.00	110	75-125	1.77	20	
Antimony	2.08	0.40	mg/L	2.00	104	75-125	8.20	20	

Duplicate (U7D1404-DUP1)		Source: DD04004-01		Prepared & Analyzed: 04/17/17					
Arsenic	0.197	0.20	mg/L	0.223		12.5	20		J
Thallium	0.192	0.40	mg/L	0.154		21.5	20	RPD2, J	
Cobalt	0.00864	0.040	mg/L	0.00747		14.5	20		J
Vanadium	1.83	0.20	mg/L	1.84		0.575	20		
Antimony	0.0683	0.40	mg/L	0.121		56.0	20	RPD2, J	
Chromium	0.592	0.10	mg/L	0.586		0.971	20		
Lead	0.309	0.50	mg/L	0.330		6.67	20		J
Zinc	42.9	0.40	mg/L	41.9		2.48	20		
Silver	0.0290	0.10	mg/L	0.0313		7.83	20		J
Barium	5.94	0.40	mg/L	5.79		2.44	20		
Copper	0.0395	0.10	mg/L	0.0426		7.46	20		J
Nickel	0.530	0.10	mg/L	0.513		3.13	20		
Selenium	0.301	0.40	mg/L	0.197		41.6	20	RPD2, J	
Cadmium	0.00163	0.020	mg/L	ND			20	RPD2, J	
Beryllium	0.00394	0.020	mg/L	0.00314		22.7	20	RPD2, J	
Molybdenum	0.174	0.10	mg/L	0.189		8.44	20		

Matrix Spike (U7D1404-MS1)		Source: DD04004-01		Prepared & Analyzed: 04/17/17					
Lead	2.29	0.50	mg/L	2.00	0.330	97.9	75-125	20	
Molybdenum	2.27	0.10	mg/L	2.00	0.189	104	75-125	20	

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MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

Metals - STLC Citrate Buffer - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7D1404

Matrix Spike (U7D1404-MS1)	Source: DD04004-01			Prepared & Analyzed: 04/17/17						
Thallium	8.86	0.40	mg/L	8.00	0.154	109	75-125		20	
Arsenic	4.21	0.20	mg/L	4.00	0.223	99.5	75-125		20	
Zinc	44.6	0.40	mg/L	2.00	41.9	134	75-125		20	MS4
Antimony	2.18	0.40	mg/L	2.00	0.121	103	75-125		20	
Vanadium	6.09	0.20	mg/L	4.00	1.84	106	75-125		20	
Nickel	2.51	0.10	mg/L	2.00	0.513	99.7	75-125		20	
Cobalt	0.810	0.040	mg/L	0.800	0.00747	100	75-125		20	
Silver	2.07	0.10	mg/L	2.00	0.0313	102	75-125		20	
Cadmium	0.414	0.020	mg/L	0.400	ND	103	75-125		20	
Copper	2.23	0.10	mg/L	2.00	0.0426	110	75-125		20	
Selenium	8.71	0.40	mg/L	8.00	0.197	106	75-125		20	
Barium	9.75	0.40	mg/L	4.00	5.79	99.0	75-125		20	
Beryllium	0.411	0.020	mg/L	0.400	0.00314	102	75-125		20	
Chromium	2.59	0.10	mg/L	2.00	0.586	100	75-125		20	

Matrix Spike Dup (U7D1404-MSD1)	Source: DD04004-01			Prepared & Analyzed: 04/17/17						
Zinc	45.0	0.40	mg/L	2.00	41.9	156	75-125	0.976	20	MS4
Nickel	2.52	0.10	mg/L	2.00	0.513	101	75-125	0.682	20	
Beryllium	0.411	0.020	mg/L	0.400	0.00314	102	75-125	0.0973	20	
Silver	2.09	0.10	mg/L	2.00	0.0313	103	75-125	1.06	20	
Antimony	2.25	0.40	mg/L	2.00	0.121	107	75-125	3.39	20	
Chromium	2.65	0.10	mg/L	2.00	0.586	103	75-125	2.18	20	
Barium	9.73	0.40	mg/L	4.00	5.79	98.5	75-125	0.202	20	
Vanadium	6.14	0.20	mg/L	4.00	1.84	108	75-125	0.795	20	
Thallium	9.12	0.40	mg/L	8.00	0.154	112	75-125	2.81	20	
Cobalt	0.813	0.040	mg/L	0.800	0.00747	101	75-125	0.322	20	
Arsenic	4.42	0.20	mg/L	4.00	0.223	105	75-125	4.96	20	
Selenium	8.75	0.40	mg/L	8.00	0.197	107	75-125	0.404	20	
Molybdenum	2.29	0.10	mg/L	2.00	0.189	105	75-125	0.956	20	
Cadmium	0.410	0.020	mg/L	0.400	ND	103	75-125	0.895	20	
Lead	2.32	0.50	mg/L	2.00	0.330	99.7	75-125	1.56	20	
Copper	2.25	0.10	mg/L	2.00	0.0426	110	75-125	0.733	20	

Batch U7D1804

Blank (U7D1804-BLK1)	Prepared & Analyzed: 04/18/17					
Mercury	0.583	1.0	µg/L			J

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Juliane Adams, Director of Analytical Chemistry

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MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

Metals - STLC Citrate Buffer - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7D1804

LCS (U7D1804-BS1)	Prepared & Analyzed: 04/18/17								
Mercury	156	1.0	µg/L	150	104	80-120		20	
LCS Dup (U7D1804-BSD1)	Prepared & Analyzed: 04/18/17								
Mercury	149	1.0	µg/L	150	99.5	80-120	4.36	20	
Duplicate (U7D1804-DUP1)	Source: DD04004-01 Prepared & Analyzed: 04/18/17								
Mercury	1.00	1.0	µg/L	0.839			17.9	20	
Matrix Spike (U7D1804-MS1)	Source: DD04004-01 Prepared & Analyzed: 04/18/17								
Mercury	159	1.0	µg/L	150	0.839	106	80-120		20
Matrix Spike Dup (U7D1804-MSD1)	Source: DD04004-01 Prepared & Analyzed: 04/18/17								
Mercury	162	1.0	µg/L	150	0.839	107	80-120	1.34	20



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Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7D0507

Blank (U7D0507-BLK1)

Prepared & Analyzed: 04/05/17

Surrogate: Decachlorobiphenyl (DCB)	0.0551		mg/kg wet	0.0500		110	11.4-122			
Surrogate: Tetrachloro-meta-xylene (TMX)	0.0339		mg/kg wet	0.0500		67.7	8.5-170			
4,4'-DDD	ND	0.025	mg/kg wet							
4,4'-DDE	ND	0.025	mg/kg wet							
4,4'-DDT	ND	0.025	mg/kg wet							
Aldrin	ND	0.025	mg/kg wet							
alpha-BHC	ND	0.025	mg/kg wet							
alpha-Chlordane	ND	0.025	mg/kg wet							
beta-BHC	ND	0.025	mg/kg wet							
Chlordane (tech)	ND	0.090	mg/kg wet							
delta-BHC	ND	0.025	mg/kg wet							
Dieldrin	ND	0.025	mg/kg wet							
Endosulfan I	ND	0.025	mg/kg wet							
Trifluralin	ND	0.025	mg/kg wet							
Endosulfan II	ND	0.025	mg/kg wet							
Endosulfan sulfate	ND	0.025	mg/kg wet							
Endrin	ND	0.025	mg/kg wet							
Endrin aldehyde	ND	0.025	mg/kg wet							
Endrin ketone	ND	0.025	mg/kg wet							
gamma-BHC (Lindane)	ND	0.025	mg/kg wet							
gamma-Chlordane	ND	0.025	mg/kg wet							
Heptachlor	ND	0.025	mg/kg wet							
Heptachlor epoxide	ND	0.025	mg/kg wet							
Methoxychlor	ND	0.025	mg/kg wet							
Toxaphene	ND	0.050	mg/kg wet							

LCS (U7D0507-BS1)

Prepared & Analyzed: 04/05/17

Surrogate: Decachlorobiphenyl (DCB)	0.0584		mg/kg wet	0.0500		117	11.4-122			
Surrogate: Tetrachloro-meta-xylene (TMX)	0.0353		mg/kg wet	0.0500		70.7	8.5-170			
4,4'-DDD	0.0401	0.025	mg/kg wet	0.0500		80.2	25-160		20	
Aldrin	0.0388	0.025	mg/kg wet	0.0500		77.5	42-122		20	
Dieldrin	0.0402	0.025	mg/kg wet	0.0500		80.3	36-146		20	
Endrin	0.0405	0.025	mg/kg wet	0.0500		81.0	30-147		20	
gamma-BHC (Lindane)	0.0385	0.025	mg/kg wet	0.0500		77.0	19-140		20	
Heptachlor	0.0396	0.025	mg/kg wet	0.0500		79.2	34-111		20	

LCS Dup (U7D0507-BSD1)

Prepared & Analyzed: 04/05/17

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Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7D0507

LCS Dup (U7D0507-BSD1)

					Prepared & Analyzed: 04/05/17				
Surrogate: Decachlorobiphenyl (DCB)	0.0575		mg/kg wet	0.0500	115	11.4-122			
Surrogate: Tetrachloro-meta-xylene (TMX)	0.0313		mg/kg wet	0.0500	62.7	8.5-170			
4,4'-DDT	0.0418	0.025	mg/kg wet	0.0500	83.7	25-160	4.23	20	
Aldrin	0.0390	0.025	mg/kg wet	0.0500	78.0	42-122	0.667	20	
Dieldrin	0.0402	0.025	mg/kg wet	0.0500	80.4	36-146	0.103	20	
Endrin	0.0414	0.025	mg/kg wet	0.0500	82.7	30-147	2.13	20	
gamma-BHC (Lindane)	0.0385	0.025	mg/kg wet	0.0500	77.0	19-140	0.0481	20	
Heptachlor	0.0394	0.025	mg/kg wet	0.0500	78.8	34-111	0.602	20	

Duplicate (U7D0507-DUP1)

		Source: DD04004-01			Prepared & Analyzed: 04/05/17				
Surrogate: Decachlorobiphenyl (DCB)	0.0945		mg/kg dry	0.0740	128	11.4-122			S02
Surrogate: Tetrachloro-meta-xylene (TMX)	0.0581		mg/kg dry	0.0740	78.5	8.5-170			
4,4'-DDD	ND	0.025	mg/kg dry		ND		200		
4,4'-DDE	ND	0.025	mg/kg dry		ND		200		
4,4'-DDT	ND	0.025	mg/kg dry		ND		200		
Aldrin	ND	0.025	mg/kg dry		ND		200		
alpha-BHC	ND	0.025	mg/kg dry		ND		200		
alpha-Chlordane	0.0116	0.025	mg/kg dry		0.0118		1.28	200	J
beta-BHC	ND	0.025	mg/kg dry		ND		200		
Chlordane (tech)	ND	0.090	mg/kg dry		ND		200		
delta-BHC	ND	0.025	mg/kg dry		ND		200		
Dieldrin	ND	0.025	mg/kg dry		ND		200		
Endosulfan I	ND	0.025	mg/kg dry		ND		200		
Trifluralin	ND	0.025	mg/kg dry		ND		200		
Endosulfan II	ND	0.025	mg/kg dry		ND		200		
Endosulfan sulfate	ND	0.025	mg/kg dry		ND		200		
Endrin	ND	0.025	mg/kg dry		ND		200		
Endrin aldehyde	ND	0.025	mg/kg dry		ND		200		
Endrin ketone	ND	0.025	mg/kg dry		ND		200		
gamma-BHC (Lindane)	ND	0.025	mg/kg dry		ND		200		
gamma-Chlordane	ND	0.025	mg/kg dry		ND		200		
Heptachlor	ND	0.025	mg/kg dry		ND		200		
Heptachlor epoxide	ND	0.025	mg/kg dry		ND		200		
Methoxychlor	ND	0.025	mg/kg dry		ND		200		
Toxaphene	ND	0.050	mg/kg dry		ND		200		

Matrix Spike (U7D0507-MS1)

Source: DD04004-01

Prepared & Analyzed: 04/05/17

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Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7D0507

Matrix Spike (U7D0507-MS1)	Source: DD04004-01		Prepared & Analyzed: 04/05/17						
Surrogate: Decachlorobiphenyl (DCB)	0.0719		mg/kg dry	0.0740	97.2	11.4-122			
Surrogate: Tetrachloro-meta-xylene (TMX)	0.0421		mg/kg dry	0.0740	56.9	8.5-170			
4,4'-DDT	0.0154	0.025	mg/kg dry	0.0740	ND	20.9	25-160	20	QM, J
Aldrin	0.0336	0.025	mg/kg dry	0.0740	ND	45.4	42-122	20	
Dieldrin	0.0460	0.025	mg/kg dry	0.0740	ND	62.2	36-146	20	
Endrin	0.0336	0.025	mg/kg dry	0.0740	ND	45.5	30-147	20	QM
gamma-BHC (Lindane)	ND	0.025	mg/kg dry	0.0740	ND	19-140	20	20	QM
Heptachlor	ND	0.025	mg/kg dry	0.0740	ND	34-111	20	20	QM

Matrix Spike Dup (U7D0507-MSD1)	Source: DD04004-01		Prepared & Analyzed: 04/05/17						
Surrogate: Decachlorobiphenyl (DCB)	0.0945		mg/kg dry	0.0740	128	11.4-122			QM
Surrogate: Tetrachloro-meta-xylene (TMX)	0.0460		mg/kg dry	0.0740	62.2	8.5-170			
4,4'-DDT	0.0154	0.025	mg/kg dry	0.0740	ND	20.9	25-160	0.101	20
Aldrin	0.0345	0.025	mg/kg dry	0.0740	ND	46.6	42-122	2.70	20
Dieldrin	0.0509	0.025	mg/kg dry	0.0740	ND	68.8	36-146	10.0	20
Endrin	0.0158	0.025	mg/kg dry	0.0740	ND	21.4	30-147	72.0	20
gamma-BHC (Lindane)	ND	0.025	mg/kg dry	0.0740	ND	19-140	20	20	QM
Heptachlor	ND	0.025	mg/kg dry	0.0740	ND	34-111	20	20	QM

Batch U7D0508

Blank (U7D0508-BLK1)	Prepared: 04/05/17 Analyzed: 04/07/17					
Surrogate: Decachlorobiphenyl (DCB)	0.0550		mg/kg wet	0.0500	110	17.2-156
Surrogate: Tetrachloro-meta-xylene (TMX)	0.0350		mg/kg wet	0.0500	70.0	20.6-119
PCB-1016	ND	0.050	mg/kg wet			
PCB-1221	ND	0.050	mg/kg wet			
PCB-1232	ND	0.050	mg/kg wet			
PCB-1242	ND	0.050	mg/kg wet			
PCB-1248	ND	0.050	mg/kg wet			
PCB-1254	ND	0.050	mg/kg wet			
PCB-1260	ND	0.050	mg/kg wet			

LCS (U7D0508-BS1)	Prepared: 04/05/17 Analyzed: 04/07/17					
Surrogate: Decachlorobiphenyl (DCB)	0.0555		mg/kg wet	0.0500	111	17.2-156
Surrogate: Tetrachloro-meta-xylene (TMX)	0.0240		mg/kg wet	0.0500	48.0	20.6-119
PCB-1016	0.212	0.050	mg/kg wet	0.250	85.0	45-117
PCB-1260	0.246	0.050	mg/kg wet	0.250	98.6	45-117
						20

LCS Dup (U7D0508-BSD1)	Prepared: 04/05/17 Analyzed: 04/07/17					

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7D0508

LCS Dup (U7D0508-BSD1)

					Prepared: 04/05/17	Analyzed: 04/07/17
Surrogate: Decachlorobiphenyl (DCB)	0.0550		mg/kg wet	0.0500	110	17.2-156
Surrogate: Tetrachloro-meta-xylene (TMX)	0.0220		mg/kg wet	0.0500	44.0	20.6-119
PCB-1016	0.206	0.050	mg/kg wet	0.250	82.2	45-117
PCB-1260	0.240	0.050	mg/kg wet	0.250	96.2	45-117

Matrix Spike (U7D0508-MS1)

		Source: DD03017-01			Prepared: 04/05/17	Analyzed: 04/07/17
Surrogate: Decachlorobiphenyl (DCB)	0.0555		mg/kg wet	0.0500	111	17.2-156
Surrogate: Tetrachloro-meta-xylene (TMX)	0.0275		mg/kg wet	0.0500	55.0	20.6-119
PCB-1016	0.218	0.050	mg/kg wet	0.250	ND	45-117
PCB-1260	0.254	0.050	mg/kg wet	0.250	ND	102

Matrix Spike Dup (U7D0508-MSD1)

		Source: DD03017-01			Prepared: 04/05/17	Analyzed: 04/07/17
Surrogate: Decachlorobiphenyl (DCB)	0.0525		mg/kg wet	0.0500	105	17.2-156
Surrogate: Tetrachloro-meta-xylene (TMX)	0.0235		mg/kg wet	0.0500	47.0	20.6-119
PCB-1016	0.213	0.050	mg/kg wet	0.250	ND	85.2
PCB-1260	0.252	0.050	mg/kg wet	0.250	ND	101

Batch U7D0603

Blank (U7D0603-BLK1)

					Prepared: 04/06/17	Analyzed: 04/07/17
Surrogate: 2-Fluorophenol	2.15		mg/kg wet	3.33	64.5	22-92
Surrogate: Phenol-d5	2.37		mg/kg wet	3.33	71.2	10-94
Surrogate: Nitrobenzene-d5	1.16		mg/kg wet	1.67	69.5	41-110
Surrogate: 2-Fluorobiphenyl	1.23		mg/kg wet	1.67	73.9	40-92
Surrogate: 2,4,6-Tribromophenol	2.66		mg/kg wet	3.33	79.8	49-138
Surrogate: d14-Terphenyl	1.46		mg/kg wet	1.67	87.4	44-131
N-Nitrosodimethylamine	ND	0.33	mg/kg wet			
N-Nitrosomethylalkylamine	ND	0.33	mg/kg wet			
Methyl Methanesulfonate	ND	0.33	mg/kg wet			
N-Nitrosodiethylamine	ND	0.33	mg/kg wet			
Ethyl Methanesulfonate	ND	0.33	mg/kg wet			
Phenol	ND	0.33	mg/kg wet			
Bis(2-chloroethyl)ether	ND	0.33	mg/kg wet			
2-Chlorophenol	ND	0.33	mg/kg wet			
1,4-Dichlorobenzene	ND	0.33	mg/kg wet			
Benzyl alcohol	ND	0.33	mg/kg wet			
Bis(2-chloroisopropyl)ether	ND	0.33	mg/kg wet			
2-Methylphenol	ND	0.33	mg/kg wet			
Acetophenone	ND	0.33	mg/kg wet			

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Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7D0603

Blank (U7D0603-BLK1)

Prepared: 04/06/17 Analyzed: 04/07/17

N-Nitrosopyrrolidine	ND	0.33	mg/kg wet
Hexachloroethane	ND	0.33	mg/kg wet
o-Toluidine	ND	0.33	mg/kg wet
4-Methylphenol	ND	0.33	mg/kg wet
N-Nitrosodi-n-propylamine	ND	0.33	mg/kg wet
Nitrobenzene	ND	0.33	mg/kg wet
N-Nitrosopiperidine	ND	0.33	mg/kg wet
Isophorone	ND	0.33	mg/kg wet
2-Nitrophenol	ND	0.33	mg/kg wet
2,4-Dimethylphenol	ND	0.33	mg/kg wet
Bis(2-chloroethoxy)methane	ND	0.33	mg/kg wet
2,4-Dichlorophenol	ND	0.33	mg/kg wet
1,2,4-Trichlorobenzene	ND	0.33	mg/kg wet
Benzoic acid	ND	0.33	mg/kg wet
Safrole	ND	0.33	mg/kg wet
2,6-Dichlorophenol	ND	0.33	mg/kg wet
N-Nitrosodi-n-butylamine	ND	0.33	mg/kg wet
4-Chloro-3-methylphenol	ND	0.33	mg/kg wet
2-Methylnaphthalene	ND	0.33	mg/kg wet
Hexachlorocyclopentadiene	ND	0.33	mg/kg wet
2,4,5-Trichlorophenol	ND	0.33	mg/kg wet
2,4,6-Trichlorophenol	ND	0.33	mg/kg wet
2-Chloronaphthalene	ND	0.33	mg/kg wet
2-Nitroaniline	ND	0.33	mg/kg wet
1,4-Naphthoquinone	ND	0.33	mg/kg wet
Dimethyl phthalate	ND	0.33	mg/kg wet
Acenaphthylene	ND	0.33	mg/kg wet
1,3-Dinitrobenzene	ND	0.33	mg/kg wet
2,6-Dinitrotoluene	ND	0.33	mg/kg wet
3-Nitroaniline	ND	0.33	mg/kg wet
5-Nitro-o-toluidine	ND	0.33	mg/kg wet
1,2-Diphenylhydrazine	ND	0.33	mg/kg wet
Acenaphthene	ND	0.33	mg/kg wet
2,4-Dinitrophenol	ND	0.33	mg/kg wet
Pentachlorobenzene	ND	0.33	mg/kg wet

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Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7D0603

Blank (U7D0603-BLK1)

Prepared: 04/06/17 Analyzed: 04/07/17

4-Nitrophenol	ND	0.33	mg/kg wet
1-Naphthylamine	ND	0.33	mg/kg wet
2,4-Dinitrotoluene	ND	0.33	mg/kg wet
2-Naphthylamine	ND	0.33	mg/kg wet
2,3,4,6-Tetrachlorophenol	ND	0.33	mg/kg wet
Fluorene	ND	0.33	mg/kg wet
Diethyl phthalate	ND	0.33	mg/kg wet
4-Chlorophenyl phenyl ether	ND	0.33	mg/kg wet
Methapyrilene	ND	0.33	mg/kg wet
4-Nitroaniline	ND	0.33	mg/kg wet
4-Aminobiphenyl	ND	0.33	mg/kg wet
Diphenylamine	ND	0.33	mg/kg wet
Benzidine	ND	0.33	mg/kg wet
N-Nitrosodiphenylamine	ND	0.33	mg/kg wet
4,6-Dinitro-2-methylphenol	ND	0.33	mg/kg wet
Phenacetin	ND	0.33	mg/kg wet
Pentachloronitrobenzene	ND	0.33	mg/kg wet
4-Bromophenyl phenyl ether	ND	0.33	mg/kg wet
Hexachlorobenzene	ND	0.33	mg/kg wet
Pentachlorophenol	ND	0.33	mg/kg wet
Phenanthrene	ND	0.33	mg/kg wet
Anthracene	ND	0.33	mg/kg wet
Di-n-butyl phthalate	ND	0.33	mg/kg wet
Fluoranthene	ND	0.33	mg/kg wet
Pyrene	ND	0.33	mg/kg wet
p-Dimethylaminoazobenzene	ND	0.33	mg/kg wet
3,3'-Dimethylbenzidine	ND	0.33	mg/kg wet
Butyl benzyl phthalate	ND	0.33	mg/kg wet
2-Acetylaminofluorene	ND	0.33	mg/kg wet
Benzo (a) anthracene	ND	0.33	mg/kg wet
Chrysene	ND	0.33	mg/kg wet
Bis(2-ethylhexyl) phthalate	ND	0.33	mg/kg wet
Di-n-octyl phthalate	ND	0.33	mg/kg wet
7,12-Dimethylbenz(a)anthracene	ND	0.33	mg/kg wet
Benzo (b) fluoranthene	ND	0.33	mg/kg wet

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Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7D0603

Blank (U7D0603-BLK1)

Prepared: 04/06/17 Analyzed: 04/07/17

Benzo (k) fluoranthene	ND	0.33	mg/kg wet							
Benzo (a) pyrene	ND	0.33	mg/kg wet							
3,3'-Dichlorobenzidine	ND	0.33	mg/kg wet							
3-Methylcholanthrene	ND	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	ND	0.33	mg/kg wet							
Benzo(ghi)perylene	ND	0.33	mg/kg wet							
O,O,O-Triethyl phosphorothioate	ND	0.33	mg/kg wet							
Pronamide	ND	0.33	mg/kg wet							

LCS (U7D0603-BS1)

Prepared: 04/06/17 Analyzed: 04/07/17

Surrogate: 2-Fluorophenol	2.41	mg/kg wet	3.33	72.2	22-92					
Surrogate: Phenol-d5	2.78	mg/kg wet	3.33	83.4	10-94					
Surrogate: Nitrobenzene-d5	1.28	mg/kg wet	1.67	76.9	41-110					
Surrogate: 2-Fluorobiphenyl	1.41	mg/kg wet	1.67	84.3	40-92					
Surrogate: 2,4,6-Tribromophenol	3.22	mg/kg wet	3.33	96.6	49-138					
Surrogate: d14-Terphenyl	1.50	mg/kg wet	1.67	89.8	44-131					
Phenol	1.44	0.33	mg/kg wet	1.67	86.1	5-112			20	
2-Chlorophenol	1.34	0.33	mg/kg wet	1.67	80.2	23-134			20	
1,4-Dichlorobenzene	0.649	0.33	mg/kg wet	0.833	77.9	20-124			20	
N-Nitrosodi-n-propylamine	0.634	0.33	mg/kg wet	0.833	76.1	5-230			20	
1,2,4-Trichlorobenzene	0.699	0.33	mg/kg wet	0.833	83.9	44-142			20	
4-Chloro-3-methylphenol	1.48	0.33	mg/kg wet	1.67	88.9	22-147			20	
Acenaphthene	0.697	0.33	mg/kg wet	0.833	83.7	47-145			20	
2,4-Dinitrotoluene	0.616	0.33	mg/kg wet	0.833	73.9	39-139			20	
Pyrene	0.748	0.33	mg/kg wet	0.833	89.7	52-115			20	

LCS Dup (U7D0603-BSD1)

Prepared: 04/06/17 Analyzed: 04/07/17

Surrogate: 2-Fluorophenol	2.24	mg/kg wet	3.33	67.1	22-92					
Surrogate: Phenol-d5	2.60	mg/kg wet	3.33	77.9	10-94					
Surrogate: Nitrobenzene-d5	1.17	mg/kg wet	1.67	70.4	41-110					
Surrogate: 2-Fluorobiphenyl	1.27	mg/kg wet	1.67	76.5	40-92					
Surrogate: 2,4,6-Tribromophenol	2.94	mg/kg wet	3.33	88.1	49-138					
Surrogate: d14-Terphenyl	1.49	mg/kg wet	1.67	89.7	44-131					
Phenol	1.34	0.33	mg/kg wet	1.67	80.1	5-112	7.16		20	
2-Chlorophenol	1.27	0.33	mg/kg wet	1.67	76.1	23-134	5.16		20	
1,4-Dichlorobenzene	0.613	0.33	mg/kg wet	0.833	73.6	20-124	5.63		20	
N-Nitrosodi-n-propylamine	0.584	0.33	mg/kg wet	0.833	70.1	5-230	8.20		20	

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Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7D0603

LCS Dup (U7D0603-BSD1)	Prepared: 04/06/17 Analyzed: 04/07/17							
1,2,4-Trichlorobenzene	0.667	0.33	mg/kg wet	0.833	80.1	44-142	4.66	20
4-Chloro-3-methylphenol	1.38	0.33	mg/kg wet	1.67	83.0	22-147	6.76	20
Acenaphthene	0.648	0.33	mg/kg wet	0.833	77.7	47-145	7.32	20
2,4-Dinitrotoluene	0.514	0.33	mg/kg wet	0.833	61.7	39-139	18.0	20
Pyrene	0.697	0.33	mg/kg wet	0.833	83.6	52-115	7.06	20

Matrix Spike (U7D0603-MS1)	Source: DD04004-01 Prepared: 04/06/17 Analyzed: 04/08/17							
Surrogate: 2-Fluorophenol	2.73		mg/kg dry	7.40	36.9	22-92		
Surrogate: Phenol-d5	3.38		mg/kg dry	7.40	45.6	10-94		
Surrogate: Nitrobenzene-d5	1.46		mg/kg dry	3.70	39.5	41-110		S02
Surrogate: 2-Fluorobiphenyl	1.73		mg/kg dry	3.70	46.7	40-92		
Surrogate: 2,4,6-Tribromophenol	4.28		mg/kg dry	7.40	57.9	49-138		
Surrogate: d14-Terphenyl	6.20		mg/kg dry	3.70	168	44-131		S02
Phenol	1.74	0.50	mg/kg dry	3.70	ND	47.0	5-112	20
2-Chlorophenol	1.59	0.50	mg/kg dry	3.70	ND	42.9	23-134	20
1,4-Dichlorobenzene	0.733	0.50	mg/kg dry	1.85	ND	39.7	20-124	20
N-Nitrosodi-n-propylamine	1.01	0.50	mg/kg dry	1.85	ND	54.5	5-230	20
1,2,4-Trichlorobenzene	1.36	0.50	mg/kg dry	1.85	ND	73.3	44-142	20
4-Chloro-3-methylphenol	2.42	0.50	mg/kg dry	3.70	ND	65.5	22-147	20
Acenaphthene	0.795	0.50	mg/kg dry	1.85	ND	43.0	47-145	20
2,4-Dinitrotoluene		ND	mg/kg dry	1.85	ND	39-139		20
Pyrene	5.74	0.50	mg/kg dry	1.85	1.48	230	52-115	20
Matrix Spike Dup (U7D0603-MSD1)	Source: DD04004-01 Prepared: 04/06/17 Analyzed: 04/08/17							
Surrogate: 2-Fluorophenol	2.31		mg/kg dry	7.40	31.2	22-92		
Surrogate: Phenol-d5	2.63		mg/kg dry	7.40	35.5	10-94		
Surrogate: Nitrobenzene-d5	1.28		mg/kg dry	3.70	34.5	41-110		S02
Surrogate: 2-Fluorobiphenyl	1.98		mg/kg dry	3.70	53.7	40-92		
Surrogate: 2,4,6-Tribromophenol	3.10		mg/kg dry	7.40	41.9	49-138		S02
Surrogate: d14-Terphenyl	4.46		mg/kg dry	3.70	121	44-131		
Phenol	1.36	0.50	mg/kg dry	3.70	ND	36.7	5-112	24.5
2-Chlorophenol	1.31	0.50	mg/kg dry	3.70	ND	35.4	23-134	19.1
1,4-Dichlorobenzene	0.654	0.50	mg/kg dry	1.85	ND	35.4	20-124	11.4
N-Nitrosodi-n-propylamine	0.806	0.50	mg/kg dry	1.85	ND	43.6	5-230	22.2
1,2,4-Trichlorobenzene	0.899	0.50	mg/kg dry	1.85	ND	48.6	44-142	40.5
4-Chloro-3-methylphenol	1.51	0.50	mg/kg dry	3.70	ND	40.9	22-147	46.2
Acenaphthene	0.782	0.50	mg/kg dry	1.85	ND	42.3	47-145	1.65
2,4-Dinitrotoluene		ND	mg/kg dry	1.85	ND	39-139		20
Pyrene	5.74	0.50	mg/kg dry	1.85	1.48	230	52-115	MS1

Matrix Spike Dup (U7D0603-MSD1)	Source: DD04004-01 Prepared: 04/06/17 Analyzed: 04/08/17							
Surrogate: 2-Fluorophenol	2.31		mg/kg dry	7.40	31.2	22-92		
Surrogate: Phenol-d5	2.63		mg/kg dry	7.40	35.5	10-94		
Surrogate: Nitrobenzene-d5	1.28		mg/kg dry	3.70	34.5	41-110		S02
Surrogate: 2-Fluorobiphenyl	1.98		mg/kg dry	3.70	53.7	40-92		
Surrogate: 2,4,6-Tribromophenol	3.10		mg/kg dry	7.40	41.9	49-138		S02
Surrogate: d14-Terphenyl	4.46		mg/kg dry	3.70	121	44-131		
Phenol	1.36	0.50	mg/kg dry	3.70	ND	36.7	5-112	24.5
2-Chlorophenol	1.31	0.50	mg/kg dry	3.70	ND	35.4	23-134	19.1
1,4-Dichlorobenzene	0.654	0.50	mg/kg dry	1.85	ND	35.4	20-124	11.4
N-Nitrosodi-n-propylamine	0.806	0.50	mg/kg dry	1.85	ND	43.6	5-230	22.2
1,2,4-Trichlorobenzene	0.899	0.50	mg/kg dry	1.85	ND	48.6	44-142	40.5
4-Chloro-3-methylphenol	1.51	0.50	mg/kg dry	3.70	ND	40.9	22-147	46.2
Acenaphthene	0.782	0.50	mg/kg dry	1.85	ND	42.3	47-145	20
2,4-Dinitrotoluene		ND	mg/kg dry	1.85	ND	39-139		MS1
Pyrene	5.74	0.50	mg/kg dry	1.85	1.48	230	52-115	MS1

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Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
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Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7D0603

Matrix Spike Dup (U7D0603-MSD1) Source: DD04004-01 Prepared: 04/06/17 Analyzed: 04/08/17
Pyrene 3.60 0.50 mg/kg dry 1.85 1.48 115 52-115 45.6 20 RPD3



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California ELAP Certificate # 1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant
Project Number: B94001.01
Project Manager: Vern Bennett

Reported:
4/26/17

Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7D0503

Blank (U7D0503-BLK1)	Prepared & Analyzed: 04/05/17						
Surrogate: Dibromofluoromethane	0.0266		mg/kg wet	0.0250	106	70-130	
Surrogate: Toluene-d8	0.0245		mg/kg wet	0.0250	98.0	70-130	
Surrogate: 4-Bromofluorobenzene	0.0237		mg/kg wet	0.0250	95.0	70-130	
Dichlorodifluoromethane (CFC-12)	ND	0.0010	mg/kg wet				
Chloromethane	ND	0.0010	mg/kg wet				
Vinyl chloride	ND	0.0010	mg/kg wet				
Bromomethane	ND	0.0010	mg/kg wet				
Chloroethane	ND	0.0010	mg/kg wet				
Trichlorofluoromethane (CFC-11)	ND	0.0010	mg/kg wet				
Ethanol	ND	0.050	mg/kg wet				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0010	mg/kg wet				
Trichlorotrifluoroethane (CFC-113)	ND	0.0010	mg/kg wet				
1,1-Dichloroethene	ND	0.0010	mg/kg wet				
Carbon disulfide	ND	0.0010	mg/kg wet				
Iodomethane	ND	0.0010	mg/kg wet				
Acrolein	ND	0.050	mg/kg wet				
Methylene chloride	ND	0.0020	mg/kg wet				
Acetone	ND	0.020	mg/kg wet				
trans-1,2-Dichloroethene	ND	0.0010	mg/kg wet				
tert-Butyl alcohol (TBA)	ND	0.020	mg/kg wet				
Methyl tert-Butyl Ether (MTBE)	ND	0.0010	mg/kg wet				
Di-isopropyl ether (DIPE)	ND	0.0010	mg/kg wet				
Chloroprene	ND	0.0010	mg/kg wet				
1,1-Dichloroethane	ND	0.0010	mg/kg wet				
Acrylonitrile	ND	0.010	mg/kg wet				
Ethyl tert-Butyl Ether (ETBE)	ND	0.0010	mg/kg wet				
Vinyl acetate	ND	0.0010	mg/kg wet				
cis-1,2-Dichloroethene	ND	0.0010	mg/kg wet				
2,2-Dichloropropane	ND	0.0010	mg/kg wet				
Bromoform	ND	0.0010	mg/kg wet				
Carbon tetrachloride	ND	0.0010	mg/kg wet				
2-Butanone (MEK)	ND	0.0010	mg/kg wet				
1,1,1-Trichloroethane (TCA)	ND	0.0010	mg/kg wet				
1,1-Dichloropropene	ND	0.0010	mg/kg wet				

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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Batch U7D0503

Blank (U7D0503-BLK1)

Prepared & Analyzed: 04/05/17

Tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/kg wet							
Benzene	ND	0.0010	mg/kg wet							
1,2-Dichloroethane (1,2-DCA)	ND	0.0010	mg/kg wet							
Trichloroethene (TCE)	ND	0.0010	mg/kg wet							
Dibromomethane	ND	0.0010	mg/kg wet							
1,2-Dichloropropane	ND	0.0010	mg/kg wet							
Bromodichloromethane	ND	0.0010	mg/kg wet							
Methyl Methacrylate	ND	0.0010	mg/kg wet							
2-Chloroethylvinyl ether	ND	0.020	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/kg wet							
Toluene	ND	0.0010	mg/kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.0010	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/kg wet							
Tetrachloroethene (PCE)	ND	0.0010	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0010	mg/kg wet							
Ethyl methacrylate	ND	0.0010	mg/kg wet							
Dibromochloromethane	ND	0.0010	mg/kg wet							
1,3-Dichloropropane	ND	0.0010	mg/kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/kg wet							
2-Hexanone	ND	0.0010	mg/kg wet							
Ethylbenzene	ND	0.0010	mg/kg wet							
Chlorobenzene	ND	0.0010	mg/kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0010	mg/kg wet							
m,p-Xylene	ND	0.0010	mg/kg wet							
o-Xylene	ND	0.0010	mg/kg wet							
Styrene	ND	0.0010	mg/kg wet							
Bromoform	ND	0.0010	mg/kg wet							
Isopropylbenzene	ND	0.0010	mg/kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0010	mg/kg wet							
Bromobenzene	ND	0.0010	mg/kg wet							
n-Propylbenzene	ND	0.0010	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0010	mg/kg wet							
2-Chlorotoluene	ND	0.0010	mg/kg wet							
1,2,3-Trichloropropane (123TCP)	ND	0.0010	mg/kg wet							

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Batch U7D0503

Blank (U7D0503-BLK1)	Prepared & Analyzed: 04/05/17						
4-Chlorotoluene	ND	0.0010	mg/kg wet				
tert-Butylbenzene	ND	0.0010	mg/kg wet				
1,2,4-Trimethylbenzene	ND	0.0010	mg/kg wet				
sec-Butylbenzene	ND	0.0010	mg/kg wet				
p-Isopropyltoluene	ND	0.0010	mg/kg wet				
1,3-Dichlorobenzene	ND	0.0010	mg/kg wet				
1,4-Dichlorobenzene	ND	0.0010	mg/kg wet				
n-Butylbenzene	ND	0.0010	mg/kg wet				
1,2-Dichlorobenzene	ND	0.0010	mg/kg wet				
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0050	mg/kg wet				
1,2,4-Trichlorobenzene	ND	0.0010	mg/kg wet				
Hexachlorobutadiene	ND	0.0010	mg/kg wet				
Naphthalene	ND	0.0010	mg/kg wet				
1,2,3-Trichlorobenzene	ND	0.0010	mg/kg wet				
Chlorodifluoromethane	ND	0.0010	mg/kg wet				
Dichlorotetrafluoroethane (CFC-114)	ND	0.010	mg/kg wet				
Xylenes	ND	0.0010	mg/kg wet				

LCS (U7D0503-BS1)	Prepared & Analyzed: 04/05/17						
Surrogate: Dibromofluoromethane	0.0256		mg/kg wet	0.0250	103	70-130	
Surrogate: Toluene-d8	0.0246		mg/kg wet	0.0250	98.5	70-130	
Surrogate: 4-Bromofluorobenzene	0.0234		mg/kg wet	0.0250	93.8	70-130	
1,1-Dichloroethene	0.0206	0.0010	mg/kg wet	0.0198	104	70-130	20
Benzene	0.0198	0.0010	mg/kg wet	0.0200	98.8	70-130	20
Trichloroethene (TCE)	0.0197	0.0010	mg/kg wet	0.0200	98.3	70-130	20
Toluene	0.0184	0.0010	mg/kg wet	0.0200	92.2	70-130	20
Chlorobenzene	0.0192	0.0010	mg/kg wet	0.0200	96.0	70-130	20

LCS Dup (U7D0503-BSD1)	Prepared & Analyzed: 04/05/17						
Surrogate: Dibromofluoromethane	0.0242		mg/kg wet	0.0250	96.8	70-130	
Surrogate: Toluene-d8	0.0251		mg/kg wet	0.0250	101	70-130	
Surrogate: 4-Bromofluorobenzene	0.0232		mg/kg wet	0.0250	92.7	70-130	
1,1-Dichloroethene	0.0195	0.0010	mg/kg wet	0.0198	98.3	70-130	5.48
Benzene	0.0185	0.0010	mg/kg wet	0.0200	92.6	70-130	6.42
Trichloroethene (TCE)	0.0186	0.0010	mg/kg wet	0.0200	92.9	70-130	5.65
Toluene	0.0178	0.0010	mg/kg wet	0.0200	89.1	70-130	3.42
Chlorobenzene	0.0185	0.0010	mg/kg wet	0.0200	92.5	70-130	3.66

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CHAIN OF CUSTODY/ANALYSIS REQUEST

2527 FRESNO STREET • FRESNO, CA 93721 • PHONE (559) 268-7021 • FAX: (559) 268-0740

ANALYTICAL CHEMISTRY DIVISION
CALIFORNIA ELAP CERTIFICATION # 1371WORK ORDER #: 044081
PAGE 1 OF 1

DD 2008-01

REPORT TO:

□ INVOICE TO:

□ REPORT COPY TO:

REPORTING :

ATTENTION: <i>Vern Bennett</i>	ATTENTION: <i>Moore Twining Analytical Inc.</i>	□ STANDARD FORMAT
NAME: <i>Moore Twining Analytical Inc.</i>	NAME: <i>Moore Twining Analytical Inc.</i>	□ EDT (STATE FORM)
ADDRESS: <i>2527 Fresno St.,</i> <i>Fresno, CA 93721</i>	ADDRESS: <i>Moore Twining Analytical Inc.</i>	□ GEOTRACKER/COELT (LUFT)
PHONE: <i>(559) 268-7021</i>	PHONE: <i>(559) 268-7126</i>	□ PDF □ EXCEL
FAX: <i>(559) 268-7126</i>	FAX: <i>(559) 268-7126</i>	□ County DHS :
SAMPLE INFORMATION		□ Environmental Health Agency :
SAMPLED BY (PRINT): <i>Vern Bennett</i>	SAMPLE TYPES: SOLID: BS - BIOSOLID CR - CERAMIC SL - SOIL/SOLID LIQUID: DW - DRINKING WATER GW - GROUND WATER OL - OIL SF - SURFACE WATER ST - STORM WATER WW - WASTE WATER	□ OTHER:
SIGNATURE: <i>Vern Bennett</i>	PROJECT INFORMATION	
□ PUBLIC SYSTEM □ PRIVATE WELL □ OTHER	CONTRACT/P.O. NO.:	
□ ROUTINE □ REPEAT □ REPLACEMENT	PROJECT:	
TURN AROUND TIME: <input checked="" type="checkbox"/> STANDARD 10 days	PROJECT NUMBER: <i>Visalia Water Conservation Plant</i>	
RUSH, DUE ON: <i>10 days</i>	PROJECT MANAGER: <i>Vern Bennett</i>	
NOTES ON RECEIVED CONDITION: <input type="checkbox"/> CUSTODY SEAL(S) BROKEN <input type="checkbox"/> SAMPLE(S) DAMAGED <input type="checkbox"/> ON ICE <input type="checkbox"/> AMBIENT TEMP. <input type="checkbox"/> INCORRECT PRESERVATION		ANALYSIS REQUESTED

L A B U S E	CLIENT SAMPLE ID	DATE	TIME	TYPE	ANALYSIS REQUESTED										System Number / Station Code	
					1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	
1	S1	4-3-11	1300	BS	X	X	X	X	X	X	X	X	X	X	X	
2	S2		1315		X	X	X	X	X	X	X	X	X	X	X	
3	S3		1330		X	X	X	X	X	X	X	X	X	X	X	
4	S4		1345		X	X	X	X	X	X	X	X	X	X	X	
5	S5		1400		X	X	X	X	X	X	X	X	X	X	X	
6	S6		1415		X	X	X	X	X	X	X	X	X	X	X	
7	S7	4-3-11	1620	BS	X	X	X	X	X	X	X	X	X	X	X	

COMMENTS/ADDITIONAL INSTRUCTIONS:

RElinquished By	COMPANY	DATE	TIME	RECEIVED BY	COMPANY
<i>Vern Bennett</i>	MTA	4/4/11	8:45	<i>Clerk</i>	<i>Mgt</i>

Moore Twining Associates

Page 2 of 2

Sample Integrity

MTA Bottles: Yes or No

Sample Integrity	Page of	WO# <u>000454</u>	Chemistry $\leq 6^{\circ}\text{C}$ Micro $<10^{\circ}\text{C}$ Temp $\leq \text{C}$	Did all bottle labels agree with COC?	Were there bubbles in VOA		
					Yes	No N/A	Yes
If samples were taken today, is there evidence that chilling has begun? Recvd C°	Yes	No N/A	Was a sufficient amount of sample received?	Yes	No N/A	Was PM notified of discrepancies?	Yes
Did all bottles arrive unbroken and intact?	Yes	No N/A	Were correct containers and preservatives received for the tests requested?	Yes	No N/A	Was PM notified of discrepancies?	Yes
Do samples have a hold time >72 hours?	Yes	No N/A	By/Time:				
125ml (A) 250ml (B) 1liter (C) 40ml VOA (V)							
Bacti Na ₂ S ₂ O ₃							
None (P)							
Cr6 Buffer (P) Borate Carbonate Buffer							
HNO ₃ (P)							
H ₂ SO ₄ (P)							
NaOH (P)							
NaOH+ZnAc (P)							
Dissolved Oxygen 300ml (P)							
None (AG)							
None (CG) 500ml							
Na ₂ S ₂ O ₃ 250ml (Brown P) 549							
Na ₂ S ₂ O ₃ (AG)							
Na ₂ S ₂ O ₃ (AG)							
Thio/K Citrate							
NH ₄ Cl (AG) 552							
HCl (AG)							
None (CG)							
H ₃ PO ₄ (AG)							
Other:							
Plastic Bag							
Low Level Ig/Metals Double Bag							
Client Own							
Glass Jar: 125/ 250/ 500							
Soil Tube: Brassy Steel/ Plastic							
5 g Encore							
SUMA Canister							
nets							
Filter or Split							
Container							
Preservative							
Date/Time/Initials							